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The military in general and the entire health care system in specific is in a period of change, right sizing, and cost containment. Many changes are in the near future for Naval Hospital, Charleston including building a Preferred Provider Organization (PPO), downsizing inpatient bed capability, developing business plans, redefining its mission, and re-engineering the way health care is delivered. The hospital has become increasingly dependent on the TPC programs to provide operational funding. This facility has developed a very successful TPC program for inpatient, outpatient The hospital is seeking to expand the TPC program to include radiology services. Under the current regulatons the TPC program for radiology may not produce sufficient reimbursement to implement the program. It also may present many unique problems in terms of staffing, equipment usage, funding, and legal liability.

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A Cost Benefit Analysis of Implementing a Third Party Collections Program for Radiology at the Naval Hospital Charleston

A Graduate Management Project
Submitted to the Faculty of
Baylor University
In Partial Fulfillment of the
Requirements for the Degree
Master of Health Administration

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by

Lieutenant Leo P. Kupper, MSC, USNR

May 1994

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The assistance of the Comptroller in helping me to select the project topic and in aiding me to navigate through the rough waters of Third Party Collections (TPC) is appreciated. I appreciate the assistance and patience of the entire TPC office in answering all my questions and showing me the ropes.

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I wish to extend a heart felt thanks to my wife and family for their support during this entire two year academic period.

ABSTRACT

The military in general and the entire health care system in specific is in a period of change, right sizing, and cost containment. Many changes are in the near future for Naval Hospital, Charleston including building a Preferred Provider Organization (PPO), downsizing inpatient bed capability, developing business plans, redefining its mission, and re-engineering the way health care is delivered. The hospital has become increasingly dependent on the TPC programs to provide operational funding. This facility has developed very successful TPC program for inpatient, outpatient and pharmacy. The hospital is seeking to expand the TPC program to include radiology services.

Under the current regulations the TPC program for radiology may not produce sufficient reimbursement to implement the program. It also may present many unique problems in terms of staffing, equipment usage, funding, and legal liability. The advantages of implementing the TPC program for radiology include maintaining workload as the active duty navy population decreases, providing an alternate source of funding for a decreasing budget, justifying current staffing, maintaining offered and seeking alternate use of CHAMPUS funds from the Lead Agent. The problems with implementing this program include finding and using an accurate staffing model, inaccurate data recording systems, limited equipment and resources, logistical

problems in returning external provider requests, employee morale issues, and possible public relation issues.

It is recommended the Naval Hospital, Charleston implement the TPC program for Radiology using a pilot study on Computerized Axial Tomography (CAT) scans to determine resource consumption, patient demand, program cost, and expected reimbursement. It is vital that a multidisciplinary team using Total Quality Leadership (TQL) methods research the issues surrounding the program and determine the best alternatives. Under current regulations a fully implemented TPC program for radiology may be able to generate up to \$30,000 a year in operational revenue for this facility.

DoD may wish to revise the TPC program for Radiology to include all radiological examinations on the premise that volume will increase the reimbursement rate.

TABLE OF CONTENTS

ACKNOWL	EDGMENTS
ABSTRAC'	ri:
CHAPTER	·
I.	INTRODUCTION Background Problem Statement Review of the Literature Purpose of the study
II.	METHODS AND PROCEDURES Departmental Assessment Third Party Collections - Inpatient Third Party Collections - Outpatient Third Party Collections - Pharmacy Third Party Collections - BUMED Activities Direct Care Workload - Radiology CHAMPUS Workload - Radiology Supplemental Medicine Workload - Radiology Staffing Models - Radiology 33 Staffing Models - Radiology 36 37 38 38 38 38 38 38 38 38 38
III.	RESULTS
IV.	DISCUSSION
v.	CONCLUSION AND RECOMMENDATIONS 65
VI.	REFERENCES

LIST	OF TABLES		
	Table 1.	FY-93 Allowable TPC Radiology Services	6
	Table 2.	FY-94 Allowable TPC Radiology Services	6
	Table 3.	NH Charleston Medical Specialties	10
	Table 4.	NH Charleston Staffing	15
	Table 5.	NH Charleston Radiology Services	18
	Table 6.	NH Charleston Radiology Equipment	18
	Table 7.	NH Charleston Radiology Staffing	21
	Table 8.	NH Charleston Radiology RIF	22
	Table 9.	Outpatient TPCP Summary Pharmacy	24
	Table 10.	FY-92 NH Charleston Radiology Studies	26
	Table 11.	FY-93 NH Charleston Radiology Studies	26
	Table 12.	NH Charleston Radiology Examinations	27
	Table 13.	FY-92 CHAMPUS Radiology Services	30
	Table 14.	FY-93 CHAMPUS Radiology Services	30
	Table 15.	Current Radiology Staffing Positions	34
	Table 16.	DoD Radiology Weighted Workload	34
		Suggested Staffing Model	37
		Summary of CHAMPUS CAT scans	48
	Table 19.	CHAMPUS Workload	60
APPEN	DIX		
	Naval Hosp	pital Organizational Chart	Α
	Current ar	nd Projected Population Data	В
	Radiology	Floor Plan	C
(Outpatient	TPCP Summary by Clinic	D
	BUMED TPC	Summary Report	E
	Radiology	Workload Summary	F
	Detailed H	FY-93 CHAMPUS Procedures	G
1	DMIS Radio	ology Weighted Workload	H
•	TPC Reimbu	rsement with 100% CHAMPUS Radiology	I
		rsement with 50% CHAMPUS Radiology	J
'	TPC Worklo	oad Form	K

1

CHAPTER I

INTRODUCTION

Background

Naval Hospital, Charleston is a 90 bed primary care hospital. The United States Congress has authorized the Department of Defense (DoD) to

"collect from third party payers to the fullest extent allowed by law. A third party payer has an obligation to pay the United States the reasonable cost of health care services provided in any facility of the Uniformed Services to a Uniformed Services beneficiary who is also a beneficiary under the third party payer's plan. The obligation is to the extent that the beneficiary would be eligible to receive reimbursement or indemnification from the third party payer if the beneficiary were to incur the costs on the beneficiary's own behalf. Authority to collect ... has been expanded to include outpatient services, automobile liability and nofault insurance and Medicare supplemental insurance carriers." (DOD, 1993).

Naval Hospital (NH) Charleston has a strong Third Party Collections (TPC) program. This program enables our facility to supplement its operational budget to purchase minor equipment and support its organizational requirements.

NH Charleston collected approximately 1.9 million dollars

for inpatient TPC and 0.7 million dollars for outpatient TPC. (Childers, 1994). In Fiscal Year 1993
(FY-93), DoD was authorized by Congress to bill third party payers (TPP) for the ancillary services of Pharmacy and Radiology. In FY-93, NH Charleston instituted the TPC program for Pharmacy prescriptions.

Problem Statement

The Comptroller for NH Charleston is seeking to implement the TPC program for Radiology services. This study will examine if Naval Hospital, Charleston can implement a TPC for Radiology services in a cost effective manner with minimal negative impact on patients and staff.

Review of the Literature

The TPC program is guided by Public Law, Title 10 and Title 42 United States Code, Title 32 Code of Federal Regulations, DoD, the Judge Advocate General (JAG), and Bureau of Medicine and Surgery (BUMED) regulations. The Public Law, Title 10, Title 32, and Title 42 provide the authorization from the U.S. Congress to implement the TPC program in DoD. The DoD and BUMED instructions provide the background, policy, procedures, organization, action, forms, and reports to be used in a TPC program.

The issue of TPC is also important in the civilian sector. As Healthcare Maintenance Organizations (HMOs) and Preferred Provider Organizations (PPOs) become squeezed for cash, these organizations are also seeking to claim

reimbursement from third party sources. A business or group will pay a HMO or PPO to render healthcare to its beneficiaries based on a flat rate per the average number of employees per month. Depending upon how the HMO or PPO has calculated its risk and managed its resources will determine whether the HMO or PPO is profitable or not.

HMOs and PPOs will generally have an approved provider list from which beneficiaries can seek healthcare and some sort of preauthorization criteria. If the patient does not follow the preauthorization criteria and seeks healthcare from an unapproved source, the patient may become liable for some or all of the expense generated from that healthcare encounter. In the DoD TPC program, the beneficiary is currently not liable for third party deductibles or copayments.

The civilian sector will also seek to collect from third party liability cases. Third party liability usually results from automobile accidents or liability cases.

The HMO or PPO can expect long delays to occur in these types of collections due to the litigation and court cases which can result. The HMO or PPO generally can not collect until the litigation is completed.

DoD assigns responsibility to the Assistant Secretary of Defense (Health Affairs) to issue policy guidance and provide oversight for the TPC program. The Secretaries of the Military Departments are to ensure that TPC policies and

directions are implemented and carried out. Each commander of a Military Medical Treatment Facility (MTF) is responsible to implement a TPC program and to provide adequate resources, leadership, training and support. Each commander must be sure that all revenues collected are used appropriately.

Inpatient hospital care was subject to TPC starting
October 1986. Authority to collect for Medicare
supplemental plans, automobile liability, no-fault insurance
plans, and outpatient care was given in November 1990. (DoD,
1993). The MTF is responsible to

"implement an outpatient collection program unless analysis demonstrates that it would not be cost effective to implement the program on an interim basis." (DoD, 1993).

Health insurance information is certified by a beneficiary on each admission or visit to a MTF. A patient must update or sign a new form during their first visit or after 12 months have passed.

DoD has allowed TPC to be billed for MTF outpatient and inpatient care as well as for high cost ancillary services or prescription drugs. The DoD instruction states

"If a Uniform Services facility provides certain high cost ancillary services, prescription drugs, or other procedures

based on a request from a source other than a Uniform Services facility and not incident to an outpatient visit or inpatient service at the MTF, the charge will not be based on the usual per visit or per diem rate. Rather, a separate standard rate shall be charged to recover the cost of the particular highcost service, drug, or procedure This special rule applies provided. only to services, drugs, or procedures having a cost of at least \$100. cost for the services, drugs, or procedures to which this special rule applies shall be calculated and published annually by the DoD Comptroller. " (DoD, 1993)

Table 1 contains the FY-93 radiology studies which could be billed for TPC and the calculated cost of the service. Table 2 contains the FY-94 allowed TPC radiology billing list. This list changed slightly from FY-93. The average CHAMPUS allowable for each type of study is provided as a comparison.

Table 1

FY-93 TPC Billed Radiology Services Allowed

	Cost of
Service	<u>Service</u>
Gastrointestinal (G.I.) Studies	\$201
Computerized Axial Tomography (CAT) Scan	\$287
Mammogram	\$171
Magnetic Resonance Imaging (MRI)	\$155
Nuclear Medicine Scan	\$238
Thallium Scan	\$688
Ultrasound	\$1,109

Table 2

FY-94 TPC Billed Radiology Services Allowed

	_	Avg
	Cost of	Champus
Service	<u>Service</u>	<u>Allowable</u>
X-Ray ribs (all), per side	\$113	\$17
X-Ray ribs, Bilateral	\$114	\$14
Upper gastrointestinal (G.I.) study	\$143	\$40
with contrast		
Hysterosalpingogram	\$126	\$32
Mammogram, Bilateral or with localization	on \$129	
Ultrasound, per study	\$116	\$60
Ultrasound, complete abdomen/biopsy	\$198	\$61
CAT scan head/brain without contrast	\$193	\$108
CAT scan head/brain with contrast	\$218	\$105
CAT scan head/brain with and without	\$307	\$127
contrast, or post fossa and IAM/IACS		
CAT scan chest	\$339	\$133
CAT scan abdomen, per study	\$169	\$141
CAT scan extremity without contrast	\$197	\$89
CAT scan extremity with contrast	\$226	\$157
CAT scan with and without contrast	\$393	\$150
MRI without contrast	\$279	\$200
MRI with contrast brain	\$481	\$481
MRI spine (all) chest and abdomen	\$229	\$229
without contrast		
MRI spine (all) with contrast	\$507	\$300
MRI extremities without contrast	\$360	\$298
MRI extremities with and without contras	st \$279	\$279

The first general x-ray study of ribs appears in the FY-94 list, while the nuclear medicine and the Thallium studies do not appear in the FY-94 listing. The average

CHAMPUS allowable is usually much less than the cost of service billed. The Third Party Payor is likely to have a set allowable payment for each type of study, much like the CHAMPUS allowable. The facility is unlikely to receive the billed cost of service and will most likely to forced to write off a considerable amount of the billed charges.

The radiological studies have been better defined with a more specific description of the study. The TPC office will need to assign CPT codes in order to submit a bill to the TPP. Some of the radiology exams can easily be assigned a CPT code, while other radiology examinations are not easily assigned a CPT code. With the FY-94 list detailing the radiological studies, a better matching to the CPT-4 code can be accomplished. This is important for billing purposes. Most TPP will look for the CPT-4 code and will have an allowable charge for that particular code. If no CPT-4 code is submitted on the bill to the third party payor, this may cause a delay in reimbursement as the TPP may ask for additional information before paying the charge.

The Radiology Department currently only accepts requests from military and NH internal partnership health care providers. If a patient presents a request for radiological services to the NH Radiology Department from a external civilian physician, the request is denied and the patient is instructed to locate a CHAMPUS provider of radiology services. Some of the reasons the request is

denied is due to a lack of manpower in the Radiology

Department and the logistics of returning the transcription

results to the requesting civilian physician. Since the

Radiology Department at the NH Charleston does not accept

radiological requests from external institutions, it cannot

participate in the TPC program and collect TPC for high cost

radiology procedures.

Purpose of the Study

The purpose of this study to perform a cost/benefit analysis of implementation of a TPC program for Radiology services at NH Charleston. Data related to direct care workload, CHAMPUS workload, Supplemental Medicine expenses and staffing requirements will be collected and analyzed. Internal and external implementation factors will also be considered.

CHAPTER II

METHODS AND PROCEDURES

Facility Assessment

Before the Radiology Department can be assessed, it is important to assess its parent organization - NH Charleston. The NH Charleston is a 90 bed inpatient acute care hospital. The hospital was commissioned for operation in 1973 and is accredited by the Joint Commission on Accreditation of Healthcare Organizations. The hospital is located at 3600 Rivers Avenue, North Charleston, South Carolina 29405-7769 and currently supports three branch medical clinics. branch medical clinics are located at the Naval Shipyard Charleston, Naval Station Charleston, and Naval Weapons Station Charleston. The Naval Station and Naval Shipyard in Charleston have been ordered to cease operations and close by the 1993 Base Realignment and Closure Commission (BRAC). The Naval Station and Naval Shipyard will have reached operational closure by 1996. The Naval Station and Naval Shipyard Branch Medical Clinics will be closed shortly after the operational closure of the Naval Station and Naval

Shipyard. The Naval Weapons Station Branch Medical Clinic will continue operations.

Services provided: The NH Charleston has seven main operating rooms, one Urology operating room, two obstetric delivery rooms, one obstetric operating room, and one minor surgery room. The medical specialties provided are included in Table 3.

Table 3

Naval Hospital Charleston Medical Specialties Provided

Internal Medicine Dermatology Mental Health Emergency Medicine Pediatrics Family Practice Optometry General Surgery Physical Therapy Orthopedics Obstetrics Gynecology Ophthalmology Urology Otorhinolaryngology Anesthesiology Dental

Strengths and weaknesses: NH Charleston has several strengths which includes strong leadership at the executive level, strong working relationship with the Charleston Air Force Base (CAFB), excellent medical support in the civilian community, and a commitment to Total Quality Leadership (TQL) principles. The major weaknesses are rapid turnover of military personnel and the vulnerability to the BRAC.

10

The Executive Committee is very active and meets on a daily basis to discuss issues and to resolve problems. The Commanding Officer (CO) holds regular Captain's Call and meets with all the Department Heads on a monthly basis. The command makes heavy use of the electronic mail system and provides a daily bulletin for all hands.

The Air Force has been a key partner in providing healthcare to the Charleston area. The Executive Officer (XO) of the Naval Hospital will be an Air Force Colonel starting in June 1994. There is an Air Force Pediatrician on hospital staff, and the Air Force medical clinic has been represented at several major strategic planning meetings.

There are several community and specialty hospitals in the Charleston area as well as the Medical University of South Carolina. These civilian institutions provide an opportunity to establish internal and external partnerships and to provide specialty care not available at the Naval Hospital.

The command has instituted a TQL office and has staffed it with two full time employees. The Executive Steering Committee (ESC) meets on a weekly basis to examine issues related to TQL and to receive reports from the Quality Management Boards (QMB) and Process Action Teams (PAT).

As with most military facilities, there is a rapid turnover of military personnel. The CO and XO are here for only a two year tour, most officers are here three years, and most enlisted staff are stationed for four years. Since most strategic plans take three to five years to implement, the military hospital staff will have almost a complete turnover before most strategic plans can be fully implemented. This can cause problems in personnel training and commitment to the strategic plan.

Most of the Navy active duty population will leave Charleston due to the BRAC order to close the Naval Base and Naval Shipyard. The Naval Hospital Charleston will be considered for closing during the 1995 BRAC. It is difficult to develop strategic plans if the future of the organization is unknown due to external forces.

Mission, goals and objectives: The mission statement of the NH Charleston is:

"Our mission is to keep the active duty members of all Armed Services healthy, and to provide health care to their families and other beneficiaries entrusted to our care."

The vision statement of the NH Charleston is:

"We want to be acknowledged as the model health care system in the Department of Defense.

- By delivering responsive medical services to fleet and shore based activities.
- By providing high quality, readily accessible care at a reasonable cost through successful integration of all military and community health care assets.

- By fostering a work environment which is professionally and personally enriching.
- By becoming an education center for primary medical care and community health.
- By Promoting innovation through the principles of Total Quality Leadership."

The guiding principles of the NH Charleston are:

- "- Customer service will be our primary focus in all decision making.
- Recognize that our primary mission is to support combat readiness.
- Manage the delivery of health care services, balancing access, quality and cost containment.
- Enhance a spirit of teamwork to improve communication and eliminate organizational barriers.
- Care for all persons as unique human beings worthy of our best professional efforts applied with courtesy, compassion, and respect.
- Guard against inflexibility which interferes with meeting the needs of our customers."

The goals of the NH Charleston are:

- "o We will remain committed to maintaining operational readiness.
- o We will optimize the delivery of health care services.
- o We will maximize the high quality of patient care.
- o We will create an internal environment that combines a quality life style with meaningful, productive work.

- o We will promote a positive internal and external image for the command.
- o We will promote wellness, protect the environment and prevent disease.
- o We will commit to professional development, education and training of all Naval Hospital personnel." (Naval Hospital Charleston Strategic Plan, 1994)

Relationship to civilian providers/institutions: The Naval Hospital has many direct relationships with civilian institutions and providers. The Naval Hospital has internal partnerships with civilian health care providers for anesthesiology, Family Practice, Internal Medicine, OB/GYN Nurse Practitioner, OB/GYN Nurse Midwife, Psychiatry, and Radiology. These internal partners come into the Naval Hospital and provide care for CHAMPUS eligible beneficiaries.

There are external partnerships for cardiac catherization and lithotripsy. Active duty military providers go into civilian institutions and provide care for DoD eligible beneficiaries.

The Naval Hospital has contracted out its Acute Care
Clinic and its Emergency Room services. These services are
provided inside the Naval Hospital for DoD eligible
beneficiaries. All health care providers and support staff
members are contract workers. The hospital also is
responsible for oversight of the NAVCARE contract. NAVCARE
is a contracted outpatient clinic which provides medical

care to DoD beneficiaries on an appointment basis. The scope of medical care that NAVCARE can provide is limited to primary care.

The NH Charleston is a Catchment Area Management (CAMCHAS) demonstration site. The CAMCHAS Network has 810 providers in 11 facilities covering 53 specialties. The network has negotiated discounts which range from 0% to 30% off the CHAMPUS allowable rates based upon individual fair market value evaluation.

Management and organization: There are about 1,300 military and civilian staff members at the NH. There are about 471 civilians, 287 officers and 511 enlisted personnel at this command. Table 4 contains the breakdown of the hospital staffing.

Table 4

Naval Hospital Charleston Staffing

Δ	Military	Civilian
Staff officer	7	0
Physicians	108	4
Dentists	2	0
Nurses	117	33
Admin/allied health	45	41
Dental Tech	4	1
Corpsmen/Techs	483	98
Other staff	24	294

The NH is a military organization with a CO, XO, special assistants and eight directorates as the core management organization. The directorates are then broken down into departments and divisions. The command organization chart is listed as Appendix (A). The NH CO has

several organizations that he directly reports to including a Navy Responsible Line Commander, the Health Care Support Office Jacksonville, and DoD region 3 Lead Agent Commander.

The NH had an FY-93 operating budget of about 38.2 million dollars and a catchment area CHAMPUS cost of about 35 million dollars. The Charleston Catchment area currently contains approximately 95,000 DoD beneficiaries of which there are about 25,000 active duty, 38,000 dependents of active duty, and 32,000 retirees and dependents of retirees. With the closing of the Naval Shipyard and Naval Station in Charleston, the DoD beneficiary population is expected to shrink by FY-96 to a total of approximately 57,000 of which there are about 10,000 active duty, 15,000 dependents of active duty and 32,000 retirees and dependents of retirees. Appendix (B) contains the current and projected population data.

The NH is expected to downsize from a 90 bed inpatient facility to a 40 bed inpatient facility. Several medical specialties will have physicians transfer with no relief expected. The Family Practice Residency has been discontinued at the NH and the first and second year residents will be transferred to other residency programs. To meet the demands of the beneficiary population, health care will be delivered by a multi-disciplinary team approach.

<u>Departmental Assessment - Radiology</u>

The Radiology Department at the NH Charleston provides a wide range of diagnostic radiological services as requested by health care providers on an inpatient and outpatient basis for DoD eligible beneficiaries. The Radiology Department is located on the first floor of the Naval Hospital Charleston.

Services provided: The Radiology Department offers most forms of diagnostic radiology. The Radiology Spaces have 4 general purpose X-ray rooms, 2 combination fluoroscopy/general purpose X-ray rooms, 2 mammography rooms, a CAT scanning room, 3 ultrasound examination rooms, a nuclear medicine examination room, a nuclear medicine laboratory room, 4 radiologist reading rooms, 4 radiologist offices, general radiology darkroom, mammography darkroom, ultrasound darkroom, file rooms, technician offices, dressing rooms, and supply storage rooms.

The MRI services are provided by a mobile trailer which is on site about 3 days a week. Table 5 lists the radiological services that are offered at the NH. Table 6 outlines the equipment available in the Radiology Department, the date purchased and the expected date of replacement.

Table 5

Naval Hospital Charleston Radiology Services

Computerized Axial Tomography (CAT) scan
Magnetic Resonance Imaging (MRI)
Mammography
Nuclear Medicine
Portable Radiology
Ultrasound
Urology Imaging
Diagnostic radiology
Gastrointestinal (G.I.) studies
Fluoroscopy

Table 6

Naval Hospital Charleston Radiology Equipment

		Replace
<u>Equipment</u>	<u>Purchased</u>	<u>Due</u>
Explorer II portable x-ray unit	8/93	8/03
AMX-4 portable x-ray unit	6/92	6/00
AMX-3 portable x-ray unit	8/83	8/93
AMX-4 portable x-ray unit	3/88	3/98
Siemens CAT scanner	8/88	8/97
CGR Mod 500t mammography unit	5/87	5/95
LORAD screening mammography unit	11/93	11/01
LORAD Stereotactic mammo	11/93	11/01
DIASONICS ultrasound unit	1/89	1/95
DIASONICS ultrasound unit	9/90	9/96
G.E. RAD unit	11/91	11/99
VECTOR RAD/FLUORO/HEAD unit	4/92	4/00
G.E. RAD/FLUORO unit	5/87	5/95
G.E. RAD/TOMO unit	NA	NA
PICKER RAD/TOMO unit	3/92	3/00
PICKER RAD unit	5/93	5/01
KODAK M6B film processor	10/87	10/95
KODAK M6B film processor	8/88	8/96
KODAK M35AM film processor	NA	NA
KODAK 480RA film processor	12/93	12/01
KODAK M35 film processor	NA	NA

^{*} NA = Information not available

The Radiology Department may be able to increase workload for CAT, mammography, ultrasound, upper GI and nuclear medicine without a negative impact on operational

effectiveness. The Radiology Department floor plan is listed in Appendix (C).

Strengths and Weaknesses: The Radiology Department has a full compliment of personnel, relatively good equipment and access to a broad base of radiology services in the civilian community. Some of the weaknesses include the rapid turnover of department heads and possible problems modernization equipment at its replacement date due to BRAC considerations.

The Radiology Department is fully staffed and is at the number of authorized billets with both military and civilian personnel. Its equipment is fairly modern and state of the art. The department has access to the medical university and other civilian resources for professional development and medical support.

The Radiology Department has had four different department heads within the last four years. This make it difficult to provide consistency for departmental planning and leadership purposes.

With the hospital under consideration for closure by the FY-95 BRAC, it will be difficult to justify replacement of major pieces of equipment on projected replacement dates. There may be a feeling at the BUMED and DoD level that the replacement equipment or money could be better used at another facility not under consideration for closure.

Mission, goals and objectives: The Radiology Department has not established its mission, goals, or objectives at this point. The department is examining the command mission, goals, and objectives and is in the process of establishing departmental mission, goals, and objectives. It is fairly important for the Radiology Department to establish these so that it can develop its business plan and proceed with its strategic planning.

Relationship to civilian providers/institutions: The Radiology Department has a civilian radiologist on staff. It also shares the mobile MRI unit with other civilian institutions.

The 437th Medical Squadron at the Charleston Air Force
Base has very limited radiological capability and their
radiology clinic is staffed with 3 technicians. All complex
radiological exam requests are sent to the NH Charleston for
scheduling.

Management and organization: The Radiology Department has a operating target for its FY-94 budget of \$427,500 and the Nuclear Medicine Clinic is budgeted for \$103,550. The department has a civilian labor budget of \$547,692.

The Radiology Department Head reports to the Director of Ancillary Services for command and control purposes. The department has a departmental staffing of 53 which includes 3 officers, 28 enlisted and 22 civilians. These numbers include the Clinical Nuclear Medicine staff, but do not

include the Radiation Safety Office staff. Table 7 contains the authorized billets and staffing levels for both civilian and military for the Radiology Department. In the radiology Department, there are two personnel on a limited duty status and three personnel engaged in on the job training. These personnel may represent more of a drain on the supervisory and technical personnel than an asset. If these five personnel are subtracted from the total manpower count, then the Radiology Department is at its authorized manpower of 48 people.

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Table 7

Naval Hospital Radiology Department Staffing

Active Duty Radiologists HM 8452 HM 8451 HM 8416 Limited Duty On Job Training	Billets Authorized 3 13 8 2 0 0 26	Currently On Board 3 12 8 3 2 3 31
Civilian Radiologist Ultrasound Technician Radiology Technician Transcriptionists Secretary Clerical Darkroom	Authorized 1 2 8 2 1 7 1 22 === 48	On Board 1 2 8 2 1 7 1 22 === 53

The NH Charleston is scheduled to downsize to 40 inpatient beds and 700 staff by the end of FY-95. To

accomplish the downsizing, a reduction in civilian force from 500 to 300 civilian employees is expected to take place. Due to the downsizing of the hospital, the Radiology Department is scheduled to lose 14 of the 22 civilian positions. The Radiology Department Head has expressed concern that the scheduled reduction in civilian positions will cause the Radiology Department to be short staffed. The proposed reduction is under review. The positions to be disestablished account for about \$282,315 of the civilian labor budget. Table 8 lists the radiology positions which are scheduled to be disestablished by the end of FY-95.

Table 8

Naval Hospital Charleston Radiology Department Reduction In Force

Medical Instrument Technician	GS-9	32,466
Lead diagnostic rad technician	GS-8	29,396
Diagnostic rad technician	GS-7	26,541
Diagnostic rad technician	GS-7	26,541
Diagnostic rad technician	GS-7	26,541
MED clerk	GS-5	21,426
OA clerk	GS-3	17,062
OA clerk	GS-3	17,062
OA clerk	GS-3	17,062
Health aid	GS-3	17,062
File clerk	GS-3	17,062
File clerk	GS-3	17,062
File clerk	GS-3	17,062

Third Party Collections - Inpatients

The NH Charleston collected approximately 1.9 million dollars for inpatient TPC in FY 93. (Childers, 1994). When the patient is sent to the Admissions Department, the TPC form (NHCHASN 7000/1) is completed and signed by the patient. This form indicates whether the patient has a

separate health insurance policy other than CHAMPUS or MEDICAID.

An admission package is forwarded to the TCP office and the patient is placed in an incomplete status. When the patient is discharged, the Patient Administration staff will encode the inpatient record and assign a Diagnostic Related Grouping (DRG) to the inpatient record. The Composite Health Care System (CHCS) will change the record status from incomplete to complete. This information is forwarded to the TCP Department. If the patient has a third party payer, a bill is generated and sent to the third party payer. If the patient does not have a third party payer, then the TCP Department admission package is destroyed.

Third party Collections - Outpatient

The NH Charleston collected approximately 0.7 million dollars for outpatient TCP. (Childers, 1994). When the outpatient medical record is created, the TCP form (NHCHASN 7000/1) is completed and signed by the patient. This form indicates whether the patient has a separate health insurance policy other than CHAMPUS or MEDICAID. When the patient presents to an outpatient clinic for treatment, the NHCHASN 7000/1 form is checked to see if the patient has a separate health insurance policy or not.

A patient encounter form is completed at the clinic reception desk by the clinic receptionist. The health care provider needs only to check a diagnosis box and return the

encounter form to a central collection area. The encounter forms are collected from the clinics on a daily basis by the TPC department staff. Bills are generated and sent to the third party payers.

Approximately 15 to 20 percent of the total patient visits have some form of third party payer. When the patient does have a third party payer and a bill is sent to the third party payer, about 60 percent of the billed amount is allowed and paid. (Childers, 1994). The Outpatient TPC Summary by Clinic is contained in Appendix (D).

Third Party Collections - Pharmacy

The NH Charleston Pharmacy started TCP in October 1992.

The Pharmacy had already been accepting prescriptions from external providers and saw the TCP as a way of being reimbursed for workload already being performed. Table 9 is the TPC summary for the NH Charleston Pharmacy.

Table 9

OUTPATIENT TPCP SUMMARY FOR PHARMACY 01 OCT 93 to 11 APR 94

	<u>Number</u>	<u>Amount</u>
Billed	358	\$55 , 009
Collected	56	\$6,137
Write-offs	444	\$7,790

Third Party Collections - BUMED Activities

The Bureau of Medicine and Surgery (BUMED) gives TPC program oversight responsibility to MED-142B. MED-142B is responsible to give guidance to BUMED activities in implementing their TPC programs. In second quarter FY-93,

NH Charleston had the 4th highest BUMED TPC billing and collection rate out of 25 BUMED activities. NH Charleston had reported cumulative billings in the amount of \$2,270,759 for second quarter FY-93. The only BUMED facilities with a better TPC billing rate were major teaching hospitals which were the National Naval Medical Center (NNMC) with a billing of \$4,100,060; Naval Medical Center (NMC) Portsmith with \$3,754,824; and NMC San Diego with \$2,950,689. The BUMED TPC Summary Report for 2nd quarter FY-93 is located in Appendix (E).

<u>Direct Care Workload - Radiology</u>

The major method of accounting for workload in the MTF in DoD is the Medical Expense Performance Reporting System (MEPRS). According to the Defense Medical Information System (DMIS), NH Charleston Radiology had a FY-92 MEPR weighted workload value of 297,001. These values indicate the values for both inpatient and outpatient radiology procedures. Each full time equivalent Radiologist should be able to process 10,000 to 15,000 diagnostic procedures per year. (Sunshine, Bansal, 1992). In FY-92, the Radiology Department performed approximately 48,000 studies with the breakdown of studies contained in table 10. (CHCS, 1994).

Table 10

FY-92 Breakdown of Radiology Studies

Computerized tomography	2,580
Magnetic Resonance Imaging	738
Ultrasound	4,788
Nuclear Medicine	1,094
Mammography	1,968
Fluoroscopy	1,434
Plain films	35,286

In FY-93, the Radiology Department again performed approximately 57,000 studies with the breakdown of studies contained in table 11. (Radiology QI minutes, 1994).

Table 11

FY-93 Breakdown of Radiology Studies

Computerized tomography	2,364
Magnetic Resonance Imaging	1,199
Ultrasound	6,000
Nuclear Medicine	1,044
Mammography	1,884
Fluoroscopy	1,378
Plain films	44,448

There are reported problems in workload accounting and certain procedures may in fact be under accounted for or over stated in terms of workload reporting. In some cases, Radiology procedures may be double counted to account for workload performed. It is difficult to have a standard reporting process, and a combination of documented workload and Radiology Department Head reporting have been used to generate the workload numbers. This will be different than numbers contained in the standard reporting systems and the numbers which are reported to higher authority.

Table 12 outlines the number of inpatient and outpatient radiologic procedures performed at the Naval Hospital for FY-92 and FY-93. The number of procedures is extracted for the Radiology Quality Assurance Minutes and the CHCS management reports.

Table 12

Naval Hospital	Radi	ology	Numbe	er of	Inpa	tient	and	Outpa [®]	<u>tient</u>	Exam:	inati	ons		
FY92	199	1	1992											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL	AVG
CT	0	0	0	0	0	0	0	65	228	207	166	167	833	167
MRI	67	64	65	67	48	73	71	56	63	52	63	49	738	62
ULTRASOUND	612	568	557	388	297	362	345	339	328	324	319	349	4788	399
IVP/CYSTO/VCUG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	68	63	131	66
NUC MED	72	37	235	27	95	88	99	91	86	87	87	90	1094	91
MAMMO	184	155	121	204	159	189	204	190	177	75	170	140	1968	164
FLUORO	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	105	118	223	112
PLAIN FILMS	3447	2968	2762	3020	2706	3349	3028	2915	2677	2702	2587	2770	34931	2911
PORTABLES	283	199	235	319	264	277	198	217	227	227	300	300	3046	254
UROLOGY	32	38	6	0	2	4	4	8	1	9	60	60	224	19
CLINICS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	====							====		=====		=====	======	=
TOTALS	4697	4029	3981	4025	3571	4342	3949	3881	3787	3683	3925	4106	47.976	3.998

27

Table 12
Naval Hospital Radiology Number of Inpatient and Outpatient Examinations

FY93	1992			1993										
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL	AVG
CT	172	203	176	192	212	204	197	204	239	191	211	167	2368	197
MRI	64	81	84	78	111	105	89	118	146	119	103	101	1199	100
ULTRASOUND	344	373	285	281	346	326	345	347	339	303	402	359	4050	338
IVP/CYSTO/VCUG	32	36	33	31	51	35	33	21	28	70	75	72	517	43
NUC MED	80	99	84	81	98	81	83	97	106	83	81	70	1043	87
OMMAM	132	174	100	105	174	163	178	206	181	175	172	128	1888	157
FLUORO	132	100	76	83	128	149	135	117	123	116	119	100	1378	115
PLAIN FILMS	2575	2933	2357	3153	2989	2918	3189	2693	2535	2177	2345	2452	32316	2693
PORTABLES	295	300	245	328	45	324	326	230	384	171	176	184	3008	251
UROLOGY	60	60	60	60	60	60	60	60	60	60	60	60	720	60
CLINICS	NA	700	700	700										

TOTALS 3886 4359 3500 4392 4214 4365 4635 4093 4141 3465 3744 4393 49,187 4,099
NA - INFORMATION NOT AVAILABLE

A major problem with comparison of direct care workload and CHAMPUS workload is CHAMPUS workload is reported by CPT code and direct care workload is reported by weighted workload values. The only way to break down the direct care workload is by depending on internal radiology department reporting. Since there is no standard internal reporting, the reporting method and results will vary by institution and department supervisors.

Radiology departments have been allowed to decide internally whether to accept civilian requests for radiological procedures or not. Radiology Department heads may make this decision based on the resources available such budget, personnel and equipment. The Radiology workload summary is contained in Appendix (F).

It would be difficult in immediately start accepting every request for Radiological studies from an external provider without having an adverse impact on the Radiology Department. The NH Charleston Radiology Department could probably increase capability in several areas by extending normal working hours or adjusting personnel assignments. The primary concern of the Radiology Department Head is to provide high quality and responsive service to the providers it serves.

CHAMPUS Workload - Radiology

The TPC program for Radiology is designed to allow MTF radiology departments to be reimbursed for external civilian radiology requests. The Charleston Catchment Area Management Database tracks outpatient radiology procedures charged to CHAMPUS by CPT code. The CPT codes for radiology are a five digit number with a range of 70000 to 79999. CPT codes are generally grouped by anatomy for CT, MRI and plain films. For example, a CT of the abdomen with contrast is coded 74160, abdomen CT without contrast is 74150, abdomen CT with and without contrast is 74170, abdomen MRI is 74181, and plain film abdomen is coded from 74000 to This manner of coding makes it extremely difficult to separate and count MRI, CT and plain film procedures. Nuclear Medicine, Ultrasound and vascular procedures are coded sequentially which makes it easier to count these types of studies.

The CHAMPUS database reported about 27,948 outpatient radiological procedures with a government allowance of about \$2.9 million dollars in FY-92. This allowance would have been reduced by patient deductibles and copayments. Table 13 contains the outpatient radiological were assigned to the NH Charleston catchment area and were billed to CHAMPUS in FY-92.

Table 13

FY-92 CHAMPUS Radiology Services

Computerized tomography	1,021
Magnetic Resonance Imaging	451
Ultrasound	1,376
Nuclear Medicine	440
Mammography	866
Fluoroscopy	480
Plain films	21,494
Radiation Therapy	1,729

In FY-93, CHAMPUS processed claims for approximately 35,059 outpatient radiological procedures. Table 14 contains the outpatient radiological were assigned to the NH Charleston catchment area and were billed to CHAMPUS in FY-93. A detailed listing of the FY-93 Radiology CHAMPUS procedures is contained in Appendix (G).

Table 14

FY-93 CHAMPUS Radiology Services

Computerized tomography	1,518
Magnetic Resonance Imaging	376
Ultrasound	1,491
Nuclear Medicine	508
Mammography	754
Fluoroscopy	681
Plain films	27,895
Radiation Therapy	1,763

Supplemental Medicine Workload - Radiology

Supplemental Medicine is medical care provided to DoD beneficiaries in the NH Charleston catchment by external organizations and billed to the NH Charleston. All active duty personnel who receive authorized care from civilian medical facilities fall under this category. Dependents and retirees may have their medical costs covered by supplemental medicine if they are admitted to the Naval Hospital but must be transported to a civilian hospital for specific tests and returned to the Naval Hospital after the testing is completed.

NH Charleston leases a MRI trailer to perform MRI studies on site three days a week. Supplemental Medicine funding has historically paid the cost of the MRI trailer and testing. NH Charleston may shift to a Cooperative Care Program which would allow the MRI company to bill CHAMPUS for performing studies on dependents and retirees and would require the dependents and retirees to cost share with deductibles and copayments for MRI studies performed on site.

Staffing Models - Radiology

If the TPC program for radiology was implemented at the NH Charleston, it could dramatically increase the workload for the department without a corresponding increase in personnel. One of the major reasons to not implement the TPC program for Radiology is the concern of not having

enough manpower to meet the expected patient demand. It is important to examine the current staffing level against some sort of standard to determine whether the Radiology Department is adequately staffed.

In 1992 the Radiology Department completed a desk audit which determined its current staffing level. The operational audit, to determine the most efficient organization, resulted in a calculated 6811.763 monthly man hours and asked for 47 billets. (Naval Hospital, 1992).

Realizing personnel assignments change as the workload requirements and military billet authorizations change, to look at the personnel assignments is looking at a snapshot in time. Table 15 contains the current staffing assignments for the NH Radiology Department.

To give another sanity check to the manpower requirements, the Defense Medical Information System (DMIS) was queried. The latest workload information contained in DMIS is for FY-92. The weighted workload for NH Charleston Radiology for FY-92 was 297001. (DMIS, 1994). The Noncommissioned Officer in Charge (NCOIC) or Leading Petty Officer (LPO) for radiology of other similar size facilities with similar weighted workload were contacted and compared in Table 16. Most of these facilities have CAT, Mammography, Ultrasound, and Nuclear Medicine capability. The facility was asked for radiology authorized billets and not personnel on board to help normalize for any manpower

overstaffing or shortages. The authorized billets represent both technical and clerical support staff. The weighted workload is for FY-92 while the facility bed size and manpower authorizations are from FY-94. While this may skew the data, it is unlikely major manpower changes occurred in this time period for the majority of facilities. Weighted workload does not take into account the complexity of the study or the acuity of the patient. A department performing many simple exams may receive as much workload credit as a department which performs a few complex examinations. This was not a scientific survey and has a large margin of error, but provides another method of comparison for radiology staffing.

Table 15

<u>Current Radiology Staffing Positions</u>

Secretary Film check Appointment clerk Front desk personnel AM shift PM shift Night shift Dark room File room Transcription Ultrasound Mammography CAT Operating Room Nuclear Medicine	1 1 1 3 12 6 2 1 3 2 2 2 2 2 1 1 3
9 - 1	
Operating Room	1
Branch Medical Clinics	3
Leading Chief Petty Officer	1
Staff Radiologists	4
Limited duty personnel	2
On the job training personnel	3
	53

Table 16

Weighted Workload Comparisons

			Authoriz	ed
	Weighted		Enl/civ	Rad
Activity name	<u>Workload</u>	<u>Beds</u>	<u>Billets</u>	<u>Billets</u>
NH Bremerton, WA	383067	98	23	3
Blanchfield ACH, KS	370065	245	37	5
58th Medical Group, AZ	333318	60	18	3
Ireland ACH, KY	300803	159	30	4
NH Charleston, SC	297001	90	44	4
646th Medical Group, FL	270287	105	31	4
56th Medical Group, FL	223099	45	24	4

The FY-92 DMIS Radiology workload report is contained in Appendix (H). Noted that there is wide variation between the weighted workload value and the number of authorized billets for both support and professional staff. The high end weighted workload of 383067 for NH Bremerton has one less authorized technical/support and one less authorized

radiologist than the low end weighted workload of 223099 for the 56th Medical Group. It is important to note that scientific conclusions cannot be drawn from this data, but does provide a snapshot of how other Radiology Departments are staffed in DoD.

A important consideration is the workload on the Radiologist. Even if enough technical and support personnel are available, there must be enough Radiologists available to interpret the radiological studies. Studies in the literature suggests a diagnostic only radiology practice should average 10,000 to 15,000 procedures per full time equivalent Radiologist per year. (Sunshine, Bansal 1991). The NH Charleston radiology averages about 48,000 procedures per year and is authorized 4 full time Radiologists. The Radiology Department Head feels the number of procedures per year is actually closer to 60,000. These figures indicate the number of radiologists authorized at the NH are justified and perhaps may be able to justify a slight increase in the professional workload for the radiologists.

Another method of determining manpower requirements is the use of a Air Force staffing standard for Radiology. The Air Force formula was used due to its availability and ease of usage. A Navy staffing formula was not readily available.

The Air Force formula for calculating required monthly manhours for non-phase II training sites is:

Y1 = 199.9 + 0.4411Xt

where

Xt = X1 + 2.682X2 + 5.495X3 + 2.511X4 + 27.328X5 + 4.185X6 + 8.203X7 + 13.186X8

where

X1 = Average monthly radiographic procedures

X2 = Average monthly portable procedures

X3 = Average monthly fluoroscopic special and routine specials

X4 = Average monthly mammographic procedures

X5 = Average monthly weighted special procedures such as angiograms

X6 = Average monthly ultrasound procedures

X7 = Average monthly CAT scan procedures

X8 = Average monthly nuclear medicine procedures

Applying the formula using the radiology direct care

FY-93 data as reported in the Radiology QI minutes:

X1 = 3453 avg monthly radiographic procedures, includes branch medical clinics and Urology

X2 = 251 avg monthly portable procedures

X3 = 115 avg monthly fluoroscopic procedures

X4 = 157 avg monthly mammographic procedures

X5 = 12 avg monthly weighted special procedures

X6 = 500 avg monthly ultrasound procedures

X7 = 297 avg monthly CAT and MRI scan procedures

X8 = 87 avg monthly nuclear medicine procedures

Xt = 3453 + 2.682(251) + 5.495(115) + 2.511(157) + 27.328(12) + 4.185(500) + 8.203(297) + 13.186(87)

Xt = 11,155.743

Y1 = 199.9 + 0.4411Xt

Y1 = 5120.7 required monthly man hours

The Air Force applies a man-hour availability factor (MAF) of 160.7 to determine work center manpower requirements. (AFR 25-5, 1987) Applying the MAF to the required monthly man hours:

work center manpower requirements = required monthly man
hours / MAF

work center manpower requirements = 5120.7 / 160.7
work center manpower requirements = 31.86

The model suggests to subtract nuclear medicine technicians out of the model, perform an additional mathematical operation, and then add the nuclear medicine technicians back into the model. This additional step was not performed and the Nuclear Medicine Technicians numbers are included in the model. The calculated monthly average number of procedures for ultrasound for FY-93 is 338. The monthly average number of ultrasounds has been increased to 500 to compensate for additional unreported workload.

By applying the Air Force staffing model to the FY-93 direct care workload for radiology, the results indicate the requirement for 32 full time equivalents. The Air Force standard manpower table suggests the following specialty titles and grades contained in table 17. (AFMD 5202, 1991).

Table 17

Suggested	Air	Force	Staffing	Model

Diagnostic Radiologists	*	3
Radiologic Superintendent	E-8	1
Radiologic Technician	E-7	2
Radiologic Technician	E-6	3
Radiologic Specialist	E-5	6
Radiologic Specialist	E-4	15
Medical Admin Specialist	E-4	1
Apprentice Admin Specialist	E-3	1
		32

This model assumes the normal operating hours are 8 hours per day, 5 days a week with additional support for patient care available 24 hours per day, 7 days per week. Staffing beyond normal duty hours must be accommodated within the manpower requirements provided by this manpower standard.

The Air Force staffing formula and the informal survey of radiology departments would indicate the Naval Hospital Charleston Radiology Department may be overstaffed for the technical and support manpower. The Air Force staffing model suggests the Radiology Department is overstaffed by 16 billets military or civilian billets. The radiology department may be able to process increased workload without a negative impact on current technical staffing. The Radiologist staffing appears to be correct and may require additional professional manpower to increase workload without a negative impact on the professional staff.

CHAPTER III

RESULTS

Cost/Benefit Analysis

There are some general issues that must be considered before implementing a TPC program for Radiology. There is a real danger for the Radiology Department to become overwhelmed in terms of workload if it begins to accept all external civilian requests for radiological studies. DoD has set standard billing charges for selected radiology studies, but in many cases these charges are higher than the average CHAMPUS allowable. In this cost/benefit analysis, the CHAMPUS allowable is about \$0.415 for every \$1.00 billed.

The four major channels for military radiological services in Charleston are CHAMPUS providers, Supplemental Medicine, NAVCARE, and the Naval Hospital. There are some exams such as certain cardiac procedures and radiation therapy which cannot be performed at the Naval Hospital. These exams will continue to be paid by CHAMPUS or Supplemental Medicine. Another important consideration which cannot be quantified at this point is the radiological

exams paid by Medicare for retirees and dependents over the age of 65.

NAVCARE provides general diagnostic radiological services and mammograms. The NAVCARE mammography services are provided as requested by a physician. It is difficult to predict if there would be a workload shift from NAVCARE to the NH Charleston, if the NH Charleston began to accept external provider requests. The general diagnostic radiology at NAVCARE is used to support NAVCARE physicians and should not impact the Naval Hospital Radiological services.

The Supplemental Medicine expenses are used to pay for active duty medical services unavailable at this facility. It also pays for active duty members assigned to this catchment area, but are given medical services outside this catchment area while they are on leave, TAD, or other authorized reasons.

MODEL 1 - ACCEPT ALL EXTERNAL CIVILIAN REQUESTS FOR RADIOLOGICAL PROCEDURES WITH MAXIMUM WORKLOAD EXPECTATIONS:

If the TPC program for Radiology is implemented, the major impact on the Naval Hospital Radiology will be from the patients receiving radiological requests from external providers and receiving these radiological services from CHAMPUS sources. The Naval Hospital processed about 58,000 radiological exams in FY-93, while about 33,000 outpatient radiological exam requests were processed by CHAMPUS. If

all the exams that were processed by CHAMPUS were instead completed at the Naval Hospital, this would increase the current Naval Hospital Radiology workload by 58% to about 91,000 radiological exams processed. This would require each of the four current Radiologists to read about 23,000 procedures per year. This number of procedures would overwhelm the professional staff. In fact by applying the Air Force Staffing model, this level of workload would require 6 Radiologists and 42 support staff. 'A contract Radiologist is paid by a percentage of the discounted CHAMPUS allowable per study. For the current contract radiologist, this fee averages between \$30,000 to \$50,000 per month. The maximum TPC for radiology to be billed would be about \$240,000 for approximately 1,540 procedures. amount would be the cost of service billed for all allowable radiology procedures. Since most TPPs will pay only the allowable, the maximum TPC for radiology that could be collected would be around \$60,000 per year. The \$60,00 figure is based on the following assumptions:

- 1. 100% of all the patients with an external provider requests for radiology came to the Naval Hospital for service.
- 2. The current service mix will remain the same as FY-93 service mix.
- 3. There is an external demand for about 31,000 radiological procedures. 7,700 exams out of this 31,000 will be a exam that is on the TPC for radiology allowable service for reimbursement listing.
- 4. Approximately 20% of the patients seen will have a third party payor. This means 1,500 exams out of this 7,700 exams meet both criteria of being on the TPC allowable listing and the patient having a third party payor.

- 5. The third party payor will have a payment schedule similar to the CHAMPUS allowable schedule.
- 6. There will not be a significant percentage of Medicare eligible patients with external provider requests for radiological services.
- 7. There will be a \$40,000 increase in contrast media costs for CAT scans
- 8. The radiology average monthly workload would be increased by:
 - 2325 radiographic procedures
 - 0 portable procedures
 - 57 fluoroscopic procedures
 - 259 mammographic procedures
 - 0 weighted special procedures
 - 125 ultrasound procedures
 - 158 CAT and MRI scan procedures
 - 42 nuclear medicine procedures

Staffing model:

- X2 = 251 avg monthly portable procedures
- X3 = 172 avg monthly fluoroscopic procedures
- X4 = 416 avg monthly mammographic procedures
- X5 = 12 avg monthly weighted special procedures
- X6 = 625 avg monthly ultrasound procedures
- X7 = 455 avg monthly CAT and MRI scan procedures
- X8 = 129 avg monthly nuclear medicine procedures
- Xt = 5778 + 2.682(251) + 5.495(172) + 2.511(416) + 27.328(12) + 4.185(625) + 8.203(455) + 13.186(129)
- Xt = 16,817.19
- Y1 = 199.9 + 0.4411Xt
- Y1 = 7,617.96 required monthly man hours
- work center manpower requirements = 7,617.96/160.7
- work center manpower requirements = 48

Diagnostic Rad	diologists	*	6
Radiologic Suj		E-8	1
Radiologic Ted		E-7	3
Radiologic Ted		E-6	6
Radiologic Spe	ecialist	E-5	8
Radiologic Spe	ecialist	E-4	18
Medical Admin	Specialist	E-4	3
Apprentice Adr	min Specialist	E-3	3

48

The staffing model would indicate the Radiology

Department has enough support staff to process all external and internal requests, but would have not enough Radiologist support. The cost of additional contract Radiologists would exceed the maximum TPC that could be expected. The Radiology staff would also most likely have to purchase additional equipment and to extend the normal working hours of the department in order to process the additional workload.

MODEL 2 - ACCEPT ALL EXTERNAL PROVIDER REQUESTS FOR RADIOLOGICAL PROCEDURES WITH REDUCED WORKLOAD EXPECTATION:

It is unlikely that any or all of these assumptions are true. It is unlikely 100% of all CHAMPUS patients would return to the Naval Hospital for any number of reasons. Some patients may feel the waiting times are excessive or there may be a perceive lower quality of care by going to a military treatment facility. The Naval Hospital Pharmacy estimates 40% of its workload is from filling external provider prescriptions.

By being a little more liberal in the workload assumption, this model will predict about 50% of all external provider requests for radiological services will be presented to the Naval Hospital. This model will predict the TPC for radiology to be billed would be about \$120,000 for approximately 770 procedures. The TPC for radiology to

be collected would be around \$30,000 per year. This figure is based on the following assumptions:

- 1. 50% of all the patients with an external provider requests for radiology came to the Naval Hospital for service.
- 2. The current service mix will remain the same as FY-93 service mix.
- 3. There is an external demand for about 15,500 radiological procedures. 3,850 exams out of this 15,500 will be a exam that is on the TPC for radiology allowable service for reimbursement listing.
- 4. Approximately 20% of the patients seen will have a third party payor. This means 770 exams out of this 3,850 exams meet both criteria of being on the TPC allowable listing and the patient having a third party payor.
- 5. The third party payor will have a payment schedule similar to the CHAMPUS allowable schedule.
- 6. There will not be a significant percentage of medicare eligible patients with external provider requests for radiological services.
- 7. There will be a \$20,000 increase in contrast media costs for CAT scans
- 8. The radiology average monthly workload would be increased by:
 - 1162 radiographic procedures
 - 0 portable procedures
 - 29 fluoroscopic procedures
 - 130 mammographic procedures
 - 0 weighted special procedures
 - 62 ultrasound procedures
 - 79 CAT and MRI scan procedures
 - 20 nuclear medicine procedures

Staffing model:

- X1 = 4616 avg monthly radiographic procedures, includes branch medical clinics and Urology
- X2 = 251 avg monthly portable procedures
- X3 = 143 avg monthly fluoroscopic procedures
- X4 = 286 avg monthly mammographic procedures
- X5 = 12 avg monthly weighted special procedures
- X6 = 563 avg monthly ultrasound procedures
- X7 = 376 avg monthly CAT and MRI scan procedures
- X8 = 109 avg monthly nuclear medicine procedures
- Xt = 4616 + 2.682(251) + 5.495(143) + 2.511(286) + 27.328(12) + 4.185(563) + 8.203(376) + 13.186(109)
- Xt = 13,998
- $Y1 = 199.9 + 0.4411Xt^{\dagger}$

Y1 = 6,374.52 required monthly man hours work center manpower requirements = 6,374.52/160.7 work center manpower requirements = 40

Diagnostic Radiologists	*	4
Radiologic Superintendent	E-8	1
Radiologic Technician	E-7	3
Radiologic Technician	E-6	4
Radiologic Specialist	E-5	7
Radiologic Specialist	E-4	17
Medical Admin Specialist	E-4	2
Apprentice Admin Specialist	E-3	2
		40

This staffing model would suggest the Radiology

Department has enough support staff to process all external and internal requests, but would have not enough Radiologist support. The radiologists would have to read 19,000 exams per radiologist per year. The cost of additional contract Radiologists would exceed the maximum TPC that could be expected. The Radiology staff would most likely have to purchase additional equipment and to extend the normal working hours of the department in order to process the additional workload.

MODEL 3 - ACCEPT ONLY EXTERNAL PROVIDER REQUESTS FOR RADIOLOGICAL PROCEDURES WITH TPC REIMBURSEMENT POTENTIAL

WITH REDUCED WORKLOAD EXPECTATION: Another possible option is to take the hard line approach and only accept external provider requests for radiology services which are on the TPC allowable reimbursement listing. This model assumes only 50% of all CHAMPUS patients would return to the Naval Hospital for radiological services.

This model will predict the TPC for radiology to be billed would be about \$120,000 for approximately 770 procedures. The TPC for radiology to be collected would be around \$30,000 per year. This figure is based on the following assumptions:

- 1. 50% of all the patients with an external provider requests for radiology came to the Naval Hospital for service.
- 2. The current service mix will remain the same as FY-93 service mix.
- 3. There is an external demand for about 15,500 radiological procedures. 3,850 exams out of this 15,500 will be a exam that is on the TPC for radiology allowable service for reimbursement listing. The other 11,650 external exams will be referred back into the external environment.
- 4. Approximately 20% of the patients seen will have a third party payor. This means 770 exams out of this 3,850 exams meet both criteria of being on the TPC allowable listing and the patient having a third party payor.
- 5. The third party payor will have a payment schedule similar to the CHAMPUS allowable schedule.
- 6. There will not be a significant percentage of medicare eligible patients with external provider requests for radiological services.
- 7. There will be a \$20,000 increase in contrast media costs for CAT scans
- 8. The radiology average monthly workload would be increased by:
 - 0 radiographic procedures
 - 0 portable procedures
 - 29 fluoroscopic procedures
 - 130 mammographic procedures
 - 0 weighted special procedures
 - 62 ultrasound procedures
 - 79 CAT and MRI scan procedures
 - 20 nuclear medicine procedures

Staffing model:

- X1 = 3453 avg monthly radiographic procedures, includes branch medical clinics and Urology
- X2 = 251 avg monthly portable procedures
- X3 = 143 avg monthly fluoroscopic procedures
- X4 = 286 avg monthly mammographic procedures
- X5 = 12 avg monthly weighted special procedures
- X6 = 563 avg monthly ultrasound procedures

X7 = 376 avg monthly CAT and MRI scan procedures
X8 = 109 avg monthly nuclear medicine procedures

Xt = 4616 + 2.682(251) + 5.495(143) + 2.511(286) + 27.328(12) + 4.185(563) + 8.203(376) + 13.186(109)

Xt = 12,835.243

Y1 = 199.9 + 0.4411Xt

Y1 = 5,861.53 required monthly man hours

work center manpower requirements = 5,861.53/160.7

work center manpower requirements = 37

Diagnostic	Radiologists	*	4
Radiologic	Superintendent	E-8	1
Radiologic	Technician	E-7	3
Radiologic	Technician	E-6	4
Radiologic	Specialist	E-5	6
Radiologic		E-4	16
	min Specialist	E-4	1
Apprentice	Admin Specialist	E-3	2
			37

This staffing model would suggest the Radiology

Department has have enough support staff to process all

external and internal requests, and would have enough

Radiologist support. The radiologists would have to read

about 62,000 total exams which is about 15,500 exams per

radiologist per year. Since the recommended number of

procedures per radiologist per year is 10,000 to 15,000

procedures, this places the number of exams to be read by a

radiologist at the upper end of the recommendation. This

will eliminate the requirement for additional contract

Radiologists. The Radiology staff may have enough

equipment, but may have to extend the normal working hours

of the department in order to process the additional

workload.

MODEL 4 - ACCEPT ONLY EXTERNAL PROVIDER REQUESTS FOR CAT

SCANS WITH TPC REIMBURSEMENT POTENTIAL WITH REDUCED WORKLOAD

EXPECTATION: Possibly the best option is to do a pilot study using one type of radiologic procedure. In this case, the CAT scan may be a good candidate to start the program. This is a radiologic procedure which would only slightly increase the radiology workload. This model assumes only 50% of all CHAMPUS patients would return to the Naval Hospital for radiological services. Table 18 is the breakdown of expected TPC reimbursement for external provider requests for CAT scans.

Table 18

SUMMARY OF CHAMPUS CAT RADIOLOGICAL PROCEDURES
FY 93 DATA 01 OCT 92 TO 30 SEP 93

THIRD PARTY COLLECTIONS (TPC)

	COST OF SERVICE	EST ALLOW COST	# POTENT TPC EXAMS	50% PATIENT DEMAND RADIO	# HISTOR TPC (20%)	POTENT THIRD PARTY COLLECT	POTENT THIRD PARTY ALLOW
CAT HEAD/BRAIN WITHOUT CONTRAS	T \$193	\$108	320	10	60 3:	2 \$6.1	176 \$3,456
CAT SCAN CHEST	\$339	\$133	213	106.5	21	\$7,221 \$2	
CAT SCAN ABDOMEN, PER STUDY	\$169	\$141	503	251.5	50 :	\$8,501 \$7	7,092
CAT SCAN EXTREMITY WITHOUT CON	IT \$197	\$89	4		2	0 \$	79 \$36
CAT HEAD/BRAIN WITH CONTRAST	\$218 *	\$105	107	53.5	11 :	\$2,333 \$1	1,124
CAT HEAD/BRAIN W/WO CONTRAST	\$307	\$127	120	60	12	\$3,684 \$1	L,524
OR FOSSA AND IAM/IACS							
CAT SCAN EXTREMITY WITH CONTRA	ST \$226	\$157	4		2	0 \$	\$90 \$63
CAT SCAN W/WO CONTRAS	\$393	\$150	220	1:	10 2:	2 \$8,6	46 \$3,300
			=====	===	===	===== =	=====
			1,491	746	149	36,729 \$1	9,427

Contrast media \$75/patient. Contrast expense 226 x \$75 = \$19,950

This model will predict the TPC for radiology to be billed would be about \$36,729 for approximately 746 procedures. The TPC for radiology to be collected would be around \$19,427 per year. There would be about 226 studies that would require an injection of contrast media. The increased contrast media expense would be about \$19,950.

The net reimbursement would be about \$0. At this expected reimbursement, there would be no other purpose served by doing this pilot study, but to help to predict patient demand and projected revenue for a full implementation of the TPC program for Radiology. This figure is based on the following assumptions:

- 1. 50% of all the patients with an external provider requests for radiology came to the Naval Hospital for service.
- 2. The current service mix will remain the same as FY-93 service mix.
- 3. There is an external demand for about 15,500 radiological procedures. 746 exams out of this 15,500 will be an CAT exam that is on the TPC for radiology allowable service for reimbursement listing. The other 14,750 external exams will be referred back into the external environment.
- 4. Approximately 20% of the patients seen will have a third party payor. This means 149 exams out of this 746 exams meet both criteria of being on the TPC allowable listing and the patient having a third party payor.
- 5. The third party payor will have a payment schedule similar to the CHAMPUS allowable schedule.
- 6. There will not be a significant percentage of medicare eligible patients with external provider requests for radiological services.
 - 7. There will be a \$20,000 increase in contrast costs

- 8. The radiology average monthly workload would be increased by:
 - 0 radiographic procedures
 - 0 portable procedures
 - 0 fluoroscopic procedures
 - 0 mammographic procedures
 - 0 weighted special procedures
 - 0 ultrasound procedures
 - 62 CAT and MRI scan procedures
 - 0 nuclear medicine procedures

Staffing model:

X2 = 251 avg monthly portable procedures

X3 = 115 avg monthly fluoroscopic procedures

X4 = 157 avg monthly mammographic procedures

X5 = 12 avg monthly weighted special procedures

X6 = 500 avg monthly ultrasound procedures

X7 = 359 avg monthly CAT and MRI scan procedures

X8 = 87 avg monthly nuclear medicine procedures

$$Xt = 3453 + 2.682(251) + 5.495(115) + 2.511(157) + 27.328(12) + 4.185(500) + 8.203(359) + 13.186(87)$$

Xt = 11,664.329

Y1 = 199.9 + 0.4411Xt

Y1 = 5,345.04 required monthly man hours

work center manpower requirements = 5,345.04/160.7

work center manpower requirements = 34

Diagnostic	Radiologists	*	3
Radiologic	Superintendent	E-8	1
Radiologic	Technician	E-7	2
Radiologic	Technician	E-6	4
Radiologic	Specialist	E-5	6
Radiologic	Specialist	E-4	15
Medical Adr	nin Specialist	E-4	1
Apprentice	Admin Specialist	E-3	2
			33

This staffing model would suggest the Radiology

Department has enough support staff to process all external and internal requests. The model suggests 3 radiologists for this workload, but the radiologists would have to read about 59,000 total exams which is about 19,600 exams per

radiologist per year. Since the recommended number of procedures per radiologist per year is 10,000 to 15,000 procedures, this exceeds the recommendation. If the fourth radiologist is maintained, the number of exams per radiologists per year is 14,750 which is within the recommendation. The Radiology staff should have enough equipment, and should not have to extend the normal working hours of the department in order to process the additional workload.

MODEL 5 - DO NOTHING (STATUS QUO): This option is always available. The hospital staffing, funding, and mission is changing rapidly. Hospital staffing and funding is likely to decrease. If the Radiology Department does nothing to seek alternate sources of revenue or to justify its current staffing, the department is most likely to be faced with decreased funding and staffing along with the rest of the hospital.

Strategic Opportunities

The Radiology Department is in a fairly good strategic position, in terms of personnel and equipment, to take advantage of the changing environment. The Radiology Department Head has worked extremely hard to offer a full service Radiology Department and to obtain adequate staffing. One of the primary functions of ancillary services such as radiology is to support the direct patient care efforts of physicians. The physicians involved in

providing direct patient are developing a hospital wide business plan. This hospital business plan should include the hospital services to be provided, the cost of these services, and the impact of these services on our beneficiary population.

The NH Charleston will face decreased staffing and decreased funding. This will be a result of the closure of the Naval Shipyard and Naval Station and the decreased number of active duty service members in the Charleston catchment area. The Lead Agent will start to develop policies which will affect the direct care and CHAMPUS health care delivery systems. The Navy will most likely start some form of capitated budgeting within the next year. In a FY-95 capitated budget, the Naval Hospital would receive a dramatically reduced budget. The Naval Hospital will seek to become a "landlord" command for the small commands being displaced by the closing of the Naval Shipyard and Naval Station. The Naval Hospital will become increasingly dependent on third party collections revenue and collecting "rent" from tenant commands to remain operational.

The Radiology Department Head feels a TPC program for Radiology will require increased staffing and equipment. There is a concern over the legal liability of returning dictated radiology reports to external health care providers. There is concern on the impact of increased

workload on the morale of department personnel. These issues are very valid and require additional research and coordination between hospital departments. These issues can be researched by a Process Action Team using Total Quality Leadership methods to provide alternative.

The Radiology Department needs to develop a business plan which is based on the hospital business plan. The Radiology Department needs to develop a mission, goals, and objectives based on the hospital mission, goals, and objectives. The Radiology Department may need to start to limit certain types of services or to increase other types of services based on a business plan analysis. The TPC program for Radiology may provide essential operational revenue for the Naval Hospital. The retiree and Air Force population in Charleston should remain constant for the next several years.

The Radiology Department must consider the types of services it will offer, the patient population, what is the demand for these services, what will be the sources of revenue, who it will offer services to, how much these services will cost, what is the optimum staffing level that both the Radiology Department and the Navy can live with, and how it will interact with external agencies. Once the Radiology Department has developed its business plan, it will need to be monitored and changed as required.

Only the Radiology Department can decide how to make a TPC program for radiology successful. The department must develop some form of staffing model to justify staffing requirements. It must also develop methods to process TPC requests and to sent diagnostic radiology results back to requesting external providers. The Radiology Department has a good opportunity to implement the TPC program for Radiology to position itself for FY-95. By implementing the TPC program for Radiology and accepting external requests for radiology procedures, the Radiology Department may be able to:

- 1. Maintain its workload as the active duty navy population decreases
- 2. Provide an alternate source of funding for a decreasing budget
- 3. Justify maintaining current staffing and services offered
- 4. Seek alternate use of CHAMPUS funds from the lead agent

Not implementing a TPC program for radiology may have the following impact:

- 1. The workload for the Radiology Department will decrease as the active duty population decreases
- 2. Funding for new programs and technologies will become increasingly difficult to obtain
- 3. Staffing levels will be cut to meet hospital downsizing objectives
- 4. CHAMPUS costs will increase as beneficiaries seek external health care providers because radiology services were eliminated due to decreased staffing and funding

The primary mission of a military hospital is to support the active duty service members. As the number of active duty service members and their dependents decrease, the primary target population will be the small remaining

percentage of active duty personnel and their dependents. The retirees and their dependents will be an increasingly important target market. A TPC program for radiology will generate very little revenue in the beginning of the program, but as the program continues the amount of revenue generated will increase.

The population in Charleston will have a choice in belonging to a Preferred Provider Organization (PPO) type network. The beneficiary will enjoy financial and access benefits by joining the PPO. The beneficiary who does not join the PPO will incur higher financial costs and limited access to the MTF. The PPO may impact on the TPC program for radiology if the beneficiaries who elect to use external providers do not have access to the MTF services.

A TPC program for Radiology will increase the workload for the Radiology Department no matter which model is used. The Radiology Department will face some increased costs in terms of consumable materials such as x-ray film, contrast media, and wear and tear on equipment. If the employees do not understand the benefits of the TPC program, the increased workload can have a negative impact on employee morale. The beneficiaries may not understand the program either and may generate some negative publicity for the Naval Hospital if the program is not properly explained and marketed.

<u>Internal and External Constituents</u>

The Naval Hospital has an obligation to support the Radiology Department in terms of funding, staffing, equipment, and leadership. The hospital has the obligation to provide medical care to active duty service members. It also has the obligation to provide medical care to dependents and retirees on a space available basis. The hospital must meet the demands placed upon it by the Lead Agent, the HSO, BUMED, DoD Health Affairs, Responsible Line Commander, Congress and the President. The hospital must stay within its direct care budget. The beneficiary population and the media can place pressure on the hospital and its external stakeholders to make changes within the hospital health care delivery system.

The Radiology Department has an obligation to support the hospital mission and to provide ancillary support to authorized providers. The Radiology Department is obligated to properly report to higher authority and to stay within its operating budget. The department is obligated to support its employees and to provide quality health care services to its beneficiary population.

CHAPTER IV

DISCUSSION

Market Strategies

The expected reimbursement of \$30,000 for a fully implemented TPC program for Radiology may not justify the cost of starting the program and the stress placed on the department personnel by increasing the workload. The Radiology Department should implement a pilot study for the TPC program for Radiology. The best candidate would most likely be CAT scans. This pilot study would have the least impact on workload, equipment, and personnel, but would have a net reimbursement of \$0 due to contrast media costs. The data collected could be used to predict the workload, equipment, cost, and personnel resources required to fully implement a TPC program for Radiology.

There are some limits on the resources in terms of equipment and personnel to increase the CAT, ultrasound, and mammography workload in the Radiology Department. Personnel should be cross trained to help support these areas.

Experienced active duty radiology personnel should be trained early as possible in different technologies when

they are first reporting for duty. It will take time for a technician to become fully proficient in a technology, but this may provide two or three years of a stable technician pool. The civilian diagnostic radiologic technician positions may be able to be switched to special technology positions such as CAT or ultrasound technicians. The possibility of extending normal working hours as workload demands is a consideration.

The Radiology Department should coordinate with the Alternate Health Care Department to assist with patient health benefits education. The Public Affairs Officer will be able to help with the marketing campaign and to obtain advertising sources. Information about the program can be passed to the beneficiary population by using the military papers such as The Bowhook and the civilian newspapers such as The Post and Courier. The TPC office will be able to provide program assistance and management control reports to track the program success.

PATs should be able to recommend suggested courses of action and possible alternatives as problems occur within the program. Patient surveys and employee feedback should provide some measure of program understanding and impact.

The pilot program should be ran for at least 6 months to gather data and to identify problems. At this point, the data can be analyzed and a decision can be made to expand, maintain, or cancel the program.

The other alternative is to implement model 3 which is to accept only external provider requests for radiological procedures with TPC reimbursement potential with a reduced workload expectation. This model will cause more stress on the Radiology delivery system than the pilot program option, but will offer the maximum TPC reimbursement with the least increase in radiology workload. This model poses a greater potential for a public relations problem. If the Naval Hospital accepts external radiology requests which have TPC reimbursement potential, but rejects external radiology requests which have no TPC potential may cause a negative impression with the beneficiary population. The best example of this situation would be when the same patient presents with an external radiology request for a upper G.I study and a chest x-ray. Under this model, the patient would be scheduled for the upper G.I. but would be instructed the Naval Hospital would not perform the chest xray and the patient would have to seek a CHAMPUS source for the chest x-ray. This model would require very careful staff training and patient education with a on-going program of marketing patient benefits. The calculated TPC reimbursement for model one (100% recapture of the CHAMPUS radiology services) is contained in Appendix (I). chart contains the TPC calculated cost of service, the estimated CHAMPUS allowable, the number of potential TPC examinations, the historical number of beneficiaries with a

TPP, the potential TPC collections if all TPPs paid the cost of service and the potential TPC if the TPPs paid close to the CHAMPUS allowable. Appendix (J) contains the same information, but assumes the Radiology Department will reclaim only 50% of the radiology CHAMPUS demand.

Table 19 contains the breakdown of the number of radiology CHAMPUS studies performed, the total amount billed and the total amount allowed. This table represents most of the possible increase in workload for the Radiology Department if a TPC program for Radiology was implemented.

Table 19

MANAGED CARE QUERY APPLICATION (MCQA)
SUMMARY OF CHAMPUS RADIOLOGICAL PROCEDURES NH CHARLESTON CATCHMENT AREA OUTPATIENT ONLY
FY-93 DATA 01 OCT 92 TO 30 SEP 93

EXAM	NUMBER EXAMS PERFORMED	TOTAL AMOUNT BILLED	AVERAGE AMOUNT BILLED	TOTAL AMOUNT ALLOWED	AVERAGE AMOUNT ALLOWED
GI TRACT		425 402 00	455 04	**************	
	681	\$37,483.00	\$55.04	\$27,281.00	\$40.06
THALLIUM	95	\$13,615.00	\$143.32	\$12,580.00	\$132.42
NUC MED	413	\$41,679.00	\$100.92	\$30,450.00	\$73.73
CT	1,518	\$230,878.20	\$152.09	\$167,387.00	\$110.27
MAMMOGRAPHY	754	\$25,222.00	\$33.45	\$23,440.00	\$31.09
ULTRASOUND	1,491	\$136,242.00	\$91.38	\$89,178.00	\$59.81
MRI	376	\$276,275.00	\$734.77	\$136,974.00	\$364.29
GENERAL X-RAY	27,895	\$2,580,582.00	\$92.51	\$2,287,685.00	\$82.01
CARDIAC/ARTERIAL/VENOUS	73	\$13,370.00	\$183.15	\$11,524.00	\$157.86
RADIATION THERAPY	1,763	\$240,903.00	\$136.64	\$164,043.00	\$93.05
	=======	=======================================		=======================================	
	35,059	\$3,596,249.20		\$2,950,542.00	

Marketing Action Plan

The Radiology Department should consider all its options and select a TPC program which is consistent with its mission. This process would be good for a PAT. The PAT should be composed of members of Radiology, TPC, comptroller, Alternate Health Care, Market Analysis, direct patient care, and Management Information Department. The

Radiology Department should coordinate developing its business plan with the hospital business plan.

The PAT team should have its recommendations prepared by the start of FY-95. By this time the hospital business plan should be fairly well developed and the Radiology Department will have an indication of the radiological services required by the hospital and the beneficiary population.

The administrative start up costs of a TPC program for Radiology should be minimal since the TPC office is well established for outpatient, inpatient and pharmacy TPC. The Radiology Department will incur some start up costs in additional time, contrast media and x-ray film. As long as current radiology staffing and equipment is used, this cost should be minimal. If it is determined additional personnel are required to be hired for a TPC program for Radiology, then the program will not be cost effective. The alternatives are listed in order of preference with the TPC program is seeking a net gain on reimbursement.

Model 4 - The pilot program accepting only external CAT scan requests with current staffing and equipment; should generate a net gain on reimbursement of \$0.

Model 3 - Performing only the radiological exams with TPC reimbursement potential with current staffing and equipment; should generate a net gain on reimbursement of \$30,000.

Model 5 - Doing nothing with current staff and equipment; should generate no reimbursement.

Model 2 - Accepting all external civilian radiological requests with expecting only 50% response would require the hiring of one contract radiologist and possibly some additional support staff for ultrasound, CAT and mammography at a cost exceeding \$400,000. With an expected TPC reimbursement of \$30,000, this would cause a net loss on reimbursement of about \$370,000.

Model 1 - Accepting all external civilian radiological requests with expecting a 100% response would require the hiring of two contract radiologists and possibly some additional support staff for ultrasound, CAT, and mammography at a cost exceeding \$800,00. With an expected TPC reimbursement of 60,00, this would cause a net loss on reimbursement of \$740,00. The total CHAMPUS allowable for FY-93 CHAMPUS radiological studies was \$2,950,542. It is possible to seek alternate use of CHAMPUS funds to use CHAMPUS money to hire contract radiologists and additional support personnel to recapture some CHAMPUS expenditures. This is an issue which would be discussed with the Lead Agent.

Controls

The TPC office and the Comptroller would provide financial oversight to the TPC program for Radiology. The Radiology Department would provide management and technical oversight to the program.

This project experienced control problems in the following areas:

- o Standard Radiology manpower staffing model
- o Radiology workload reporting
- o Matching CPT codes with TPC authorized Radiology studies

There was no easily identifiable Navy manpower staffing model for Radiology. An Air Force staffing model was used, but there may be significant differences in the duties expected between Navy Radiology Personnel and Air Force Radiology Personnel. If the standard of 15,000 radiology procedures per Radiologist per year is used, then the required Radiologist staffing as it related to workload was consistently underestimated by the Air Force model. This may suggest the Air Force model was underestimating the required Radiology support staff as related to workload.

There are multiple information systems which record the Radiology workload. These systems include DMIS, CHCS, and manual accounting methods. This causes discrepancies between the reported workload, and may allow departments to artificially increase or decrease workload. A standard reporting system using one CPT code per one patient would help to eliminate variations between reporting systems and

may help to standardize the data for use in departmental planning.

The documentation authorizing the Radiology studies which could be used for TPC reimbursement did not indicate the CPT code for each study. This may leave room for variation in billing the TPP and may cause delays in collections. It would be helpful if the authorizing documentation would also include the corresponding CPT codes.

CHAPTER V

CONCLUSION AND RECOMMENDATIONS

With a expected reimbursement of only \$30,000, the TPC program for Radiology may not be cost effective to implement under the way the program is currently structured. The NH Charleston may be required to implement some form of TPC program for Radiology to provide needed operational funding. The TPC program for Radiology has many issues which need to be looked at prior to implementation.

It is very important for the Radiology Department to "buy into" a TPC program for Radiology. If the Radiology Department does not feel the program will beneficial to them, it is unlikely the program will be successful. The Radiology Department should coordinate a PAT to study the issues and make recommendations. It is my recommendation to implement a pilot study using external provider requests for CAT scans. If the program is found to be feasible, it should be expanded as much as staffing and equipment allow. Asking the Lead Agent for alternate use of CHAMPUS funds should be explored to provide additional staffing.

According to the Naval Hospital Legal Office, there is little legal liability as long as the Naval Hospital makes a responsible effort to send a dedicated report back to the referring provider. The logistics of returning dictated external provider reports is a matter of developing a provider database and mailing label generation program. There are many off the shelf software packages to perform these functions. There may be greater legal liability when a well meaning internal provider takes an external provider request and rewrites it with the internal provider's signature. This internal provider now becomes legally responsible to follow up the patient.

Appendix (K) contains a sample TPC form which could be modified to meet the needs of the Radiology Department.

DoD may wish to revise the TPC program for Radiology to include all the radiological procedures and not just the high cost procedures. A further analysis should be conducted to see if an increased volume of TPC procedures would increase the TPC reimbursement rate.

A TPC program for Radiology provides a possible source of operational revenue for the hospital, but may also have some negative impact in terms of staffing and equipment usage.

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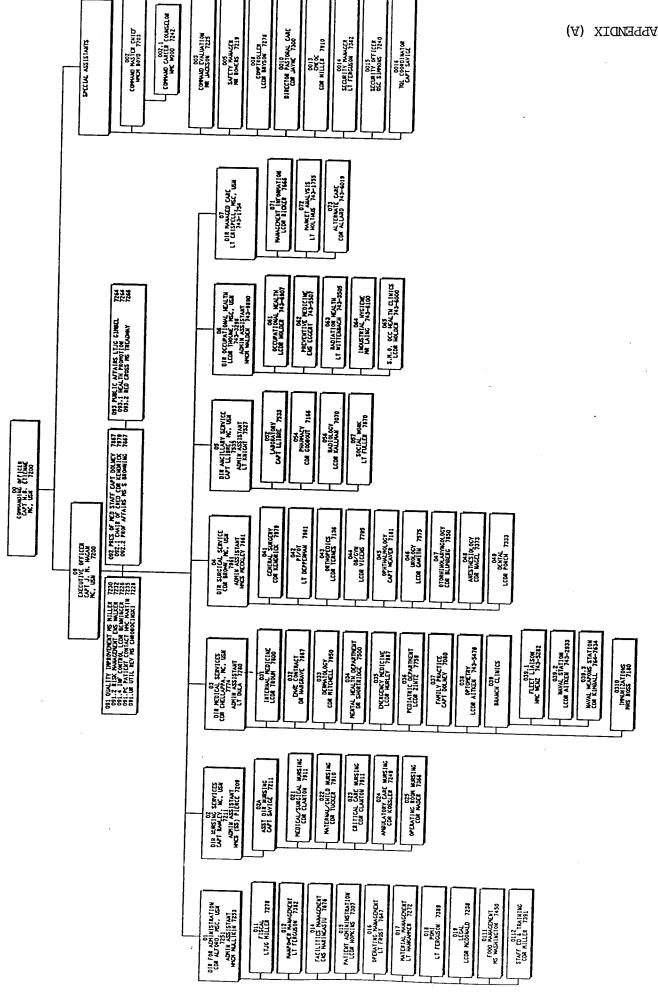
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20.0

NAVAL HOSPITAL CHARLESTON CATCHMENT AREA DEMOGRAPHIC DATA

Date Prepared: 05 February 1994

ACTUAL DATA FOR 30 SEPTEMBER 1992

	Active Duty Sponsors	Active Duty Dependents	Retired Sponsors	å	Survivor's Dependents	Service Total	Percent of Grand Total
))))))	343	526	11 11 11))))))))	489	======== 4,564	4.60
	4,115	6,337	3,494	5,068	633	19,653	19.81
	367	374	327	502	109	1,679	1.69
Navy	21,440	33,078	6,257	10,291	1,199	72,265	72.84
	239	383	176	214	39	1,051	1.06
i 1 1 1	26,504	40,698	40,698 11,637	17,898	2,475	99,212	100.00

Data Source:

Distribution of Military Population by Type for Charleston SC as of September 30 1992 – – Provided by Defense Manpower Data Center

ACTUAL DATA FOR 30 SEPTEMBER 1993

	FY 92 to FY 93	Amount	Change	(142)	1,109	38	(10,500)	170	(9,325)
		Percent of	Grand Total	4.92	23,10	1.91	68.71	1.36	100.00
		Service	Total	 4,422	20,762	1,717	61,765	1,221	89,887
FEMBER 1993		Survivor's	Dependents	507	703	117	1,225	47	2,599
ACTUAL DATA FOR 30 SEPTEMBER 1993		Retired	Dependents D	1,887	5,165	499	10,814	219	18,584
CTUAL DAT,		Retired	Sponsors	1,519	3,728	357	6,785	166	12,555
∢		Active Duty	Dependents	266	6,742	347	26,626	474	34,455
		Active Duty	Sponsors	243	4,424	397	16,315	315	21,694
		Service	Affiliation	Army	Air Force	Marine Corps	Navy	Other	Totals

Distribution of Military Population by Type for Charleston SC as of September 30 1993 -- Provided by Defense Manpower Data Center Data Source:

PROJECTED DATA FOR FISCAL YEAR 1996 (POST BRAC)

20 77 - 400 77	FY 92.10 FY 96	Amount	Change		2,407	885	261	(41,413)	145	(37,608)
•		 Percent of 	Grand Total	11 11 11 11 11 11 11 11 11 11 11 11 11	11.32	33.51	3.15	50.08	1.94	100.00
		Service	Total		6,971	20,645	1,940	30,852	1,196	61,604
()			Medicare		862	1,302	124	2,650	62	5,000
		Retired	Dependents	;; ;; ;; ;;	1,800	5,108	592	9,940	219	17,659
		Retired	Sponsors		1,450	3,653	334	6,393	170	12,000
•		Active Duty	Dependents		1,511	6,582	535	6'96'9	448	15,945
		Active Duty	Sponsors		1,348	4,000	355	5,000	297	11,000
		Service	Affillation		Army	Air Force	Marine Corps	Navy	Other	Totals

Data Source: DMIS/RAPS

NAVAL HOSPITAL CHARLESTON CATCHMENT AREA DEMOGRAPHIC DATA

Date Prepared: 03 March 1994

ACTUAL DATA FOR 01 FEBRUARY 1994

· ·
Less than 4. 4. 6. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

NAVAL HOSPITAL CHARLESTON CATCHMENT AREA DEMOGRAPHIC DATA

Date Prepared: 03 March 1994

PROJECTED DATA FOR FISCAL YEAR 1996 (POST BRAC)

			~ 0	Active Duty	>						ďί	Active Duty	~.			
	Less		,	s to si lo do					900		2	Dependents	ន			
Service	than	4-13	14-16	17-23	24-33	34-64	65+		than	4-13	14-16	17-23	24-33	34-64	65+	
Affiliation	4 years	ll ll	years years	years	years	years	years	Total	4 years			years	years		ears	
Army	0				334	l	0	1,348	163	566	######################################	===== 193	187	======================================	!! !}	1511
Air Force	0	0	0	797	2,000	1,203	0	4,000	805	2,338	439	720	1.371	903	о (C	ָרָ הָ הַ מָּ
Marine Corps	0	0	0	236	96	23	0	355	92	149	2	123	108	38	0	535
Navy	0	0	0	1,186	2,522	1,292	0	2,000	970	2,516	394	992	1,346	866	9	698.9
Other	0	0	0	69	139	89	0	297	28	159	17	51	94	68	-	448
Totals	0	0	0	2,811	5,091	3,098	0	11,000	2,090	5,729	982	1,853	3.106	2.162	23	15.945
% of Total	%0	%	%	56%	46%	28%	%	100%	13%	36%	%9	12%	19%	14%	%0	100%
			-													
			u v	Retired				-			æ í	Retired				
	Less		,	200					-		Š	Dependents	ر ن			
Service	than	4-13	14-16	17-23	24-33	34-64	65+		than	4-13	14-16	17-23	24-33	34-64	65+	
Affiliation	4 years	years	years	years	years	years	years	Totai	4 years	1	years			years		Total
Army	0	0	0	4		1,073			1	197	129	326		11 11 11 11 11 11 11 11 11 11 11 11 11	# P 838	0.031
Air Force	0	0	0	-	55	3,280	1,000	4,304	19	448	340	1,000	8 1	2.995	877	5.759
Marine Corps	0 (0	0	-	9	273	116	396	7	73	48	109	Ξ	293	114	654
Navy Othor	o c	o c	0 0	 (79	5,770	1,868	7,718	92	1,214	888	2,291	183	5,096	1,518	11,265
Oute)) - -	o 	. 	- 	127	73	201	C)	5	18	40	Ø	115	61	250
Totals	0	0	0	7	135	10,523	3,835	14,500	115	1,944	1.422	3.767	315	888.0	3008	1.50
% of Total	%	%	%0	%	%	73%	56%	100%	1%	10%	%/	19%	2%	47%	16%	100%
_																
,			۵.	Total Population												
Service	Less	4-13	14-16	17-23	24-33	34 - 64	a H									
Affiliation	4 years	years	years		years	years		Total								
1	175	763	240 1,045		587	2.741	===== 1.421	6.972								
Air Force	824	2,786	779	2,518	3,474	8,381		20,645								
Marine Corps	102	222	69	469	221	627		1,940								
Navy Other	1,046 60	3,730	1,282	4,244	4,130	13,024		30,852								
	8	-	3	2	620	669	029 130	1,196								
Totals % of Total	2,207 4%	7,672 12%	2,405 4%	8,436 14%	8,648 14%	25,172 41%	7,065 6	61,605 100%								

PROJECICA \Box STAIR 1 TRANSCRIPTION PR-KALLMAN NUCLEAR MEDICINE EXAM ROOM RADIOLOGY ELECTRIC CONTROL DEPT-SECRETARY OF B WS EXAM DR. DR. RM#3 LEGAN MIND MAMOGRAPHY PT. LOUNGE OUTPATIENT NURSING LAB & MAMMO SUPV. COUNTING LCPO. FILERM ROOM u/5 WS. u/s OFFICE RADIOLOGY EXAM OFFICE DARK STAFF RM #1 MAMO. OFFICE ROOM FADIFTIC LOUNGE DARKRM > PECTRY MAMMO SCHED-STORAGE EXAM RM SUPPLY ULING #1 STORM MAM 37 PARK MANA OFFKE L ROOM X-RAY ROOM MAMMO FLOUROSCOPY RM EXAM RM STO 6067 #2 ZO SCHNNING > MENS WOMENS DRESSING ROOMS . Room xicy 67 07 DARKROOM CONTROL X-RAY ROOM MC+DR, YAR-X CONACTER ROOM ROUM **PROCESSING** W-07 X-RAY ROOM OFFICE X-P-Y -.01 ... EAD OF CARDI OLOGY MAMLERAPHY READING READING READING REALING RADIOLOGY FILE ROOM RM#31 RM #1 RM# 2 1-081-1 APPENDIX (C)

NAVAL HOSPITAL CHARLESTON 26-JAN-94

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OUTPATIENT TPCP SUMMARY BY CLINIC (27-APR-93 to 30-SEP-93)

MEPRS	MEPRS Description	# Billed	Billed	χ.	Collected	у.	Write-Off	* %	Receivable	Z.
BAAA	INTERNAL MEDICINE CLINIC NH	431	\$41,653.15	7.3	\$15,949,91	11.1	\$10,116.09	4 R	415 ,802 15	5.7
BAKA	NEUROLOGY CLINIC NH	27	\$2,700.00	0.5	\$1,230.00	0.9	\$570.00	0.4	\$900.00	0.7
BAPA	DERMATOLOGY CLINIC NH	236	\$23,600.00	4.2	\$6,365.68	4.4	\$6,944.32	4.7	\$10.590.00	3.8
BBAA	NEUROLOGY CLINIC NH DERMATOLOGY CLINIC NH GENERAL SURGERY CLINIC NH	342	\$34,100.00	6.0		5.6	\$9,601.04	6.5	\$16.509.00	6.0
BBDA	OPTHALMULUGY CLINIC NH	300	\$30,000.00	5.3	\$11,125.99	7.7	\$8,474.01	5.7	\$10,500.00	3.8
BBFA	OTORHINOLARYNGOLOGY CLINIC NH UROLOGY CLINIC NH	120	\$12,000.00	2.1	\$4,884.25	3.4	\$2,515.75			
BBIA	UROLOGY CLINIC NH	222	\$22,057,00	3.9	\$6,344.06	4.4	\$6,750.94		\$8,962.00	3.2
BCBA	OB/GYN CLINIC NH PEDIATRIC CLINIC NH	111	\$11,049.00	1.9	\$4,089.42	2.8		2.4	\$3,459.00	1.2
BDAA	PEDIATRIC CLINIC NH	21	\$2,100.00	0.4	\$749.00	0.5		0.5	\$600.00	0.2
BEAA	ORTHOPEDIC CLINIC NH	110	¢11 7/0 AA	2 1	\$4,011.44	2.8		1.6	\$5,354.00	1.9
BFAA	PSYCHIATRY CLINIC NH PSYCHOLOGY/PSYCHIATRY SUBSTANCE ABUSE CLINIC NH FAMILY PRACTICE CLINIC NH	92	\$8,692.60	1.5	\$1,653.00	1.1	\$4,517.00	3.1	\$2,592,60	0.9
BFBA	PSYCHOLOGY/PSYCHIATRY	66	\$6,290.00	1.1	\$1,169,00	0.8	\$2,727.00	1.8	\$2,394.00	0.9
BFFA	SUBSTANCE ABUSE CLINIC NH	9	\$900.00	0.2	\$182.50	0.1		0.0	\$700.00	0.3
BGAA	FAMILY PRACTICE CLINIC NH	806	\$80,368.00	14.2	\$22,337.98	15.5	\$24,000.27	16.2	\$34,129,75	12.3
BGAL	FAMILY PRACTICE NAVAL WEAPON S	109	\$10.440.00	1.8	\$3,112.30	2.2	\$3,987.70	2.7	\$3,340.00	1.2
BHAE	AMBULATORY CARE CLINIC NH	563	\$56,300.00	9.9	\$14,092.71	9.8	\$11,159.94		\$31,300.00	11.3
BHAZ	PRIMARY CARE CLINIC NAVAL WEAP	2	\$190.00	0.0	\$76.00	0.1	\$19.00	0.0	\$95.00	0.0
BHCY	OPTOMETRY NAVAL STATION	2	\$200.00	0.0	\$129.25	0.1	\$70.75	0.0	\$0.00	0.0
ВННА	AMBULATORY CARE CLINIC NH PRIMARY CARE CLINIC NAVAL WEAP OPTOMETRY NAVAL STATION NAVCARE NH	1,337	\$131,943.00	23.2	\$22,875.45	15.9	\$37,667.55	25.4		25.8
BIAA	EMERCENCY MEDICAL CLINIC AND	~ ~ ~	ACE EAE OA		\$8,048.00	5.6	. \$9,797.00	6.6	\$7,900.00	2.9
CAAA	ORAL SURGERY NH	33	\$3,116.00	0.5	\$452.25		\$547.75	0.4	\$2,116.00	0.8
DAAA	PHARMACY NH	81	\$10,206.00	1.8	\$528.15	0.4	\$119.85	0.1	\$9.558.00	3.5
PAAA	PURCHASED HEALTH NH	82	\$42,263.64	7.4	\$6,506.01		\$1.808.37	1.2	\$33,949,26	12.3
PAAB	ORAL SURGERY NH PHARMACY NH PURCHASED HEALTH NH WORKER'S COMP	1	\$100.00	0.0	\$100.00	0.1			\$0.00	0.0
		5,358	\$567,562.39				\$148.04£.97		\$277,040.7£	

OUTPATIENT THEY SUMMARY BY CLIMIC (01-OCT-93 to 25-FEB-94)

	S MEPRS DESCRIPTION	#	BILLED		#	COLLECTED	χ	#	WRITE-OFFS	Х	RECEIVABLE	ž
FAAA	INTERNAL MEDICINE CLINIC NH NEUROLOGY CLINIC NH DERMATOLOGY CLINIC NH GENERAL SUBSECTION OF THE COMME	379	\$35,534.75	4.6	299	\$20,779.64						
DAKA	NEURULUGY CLINIC NH	22	\$2,183.00	0.3	20				\$13,415.96		\$17,409.30	3
BAPA	DERMATOLOGY CLINIC NH	395	\$39,161.00	5/1		\$16,095.01						0.3
	TENTENTE SOUGERI CEINIC NA	511	\$50,315.00	5.6	704	\$24,727.55	5.6		\$12,252.99		\$21,463.00	4.5
BBDA	a	290	\$28,700.00			\$14,440.06	8.6				\$22,806.60	4.5
BBFA	THE CONTROL OF	173	\$17,134.00	2.2	116		5.0			3.4	\$15,042.00	3.3
BBIA		2/7	405 004 45				2.8			2.1	\$7.522.00	1.:
BCBA	OB/GYN CLINIC NH PEDIATRIC CLINIC NH ORTHOPEDIC CLINIC NH PSYCHIATRY CLINIC NH	194	\$19.073.00	2.5	29	\$10,090.75	3.5		\$11,160.40	3.9		2.5
BDAA	PEDIATRIC CLINIC NH	34	\$3.216.00	0.4			0.7			0.7	\$18,721.00	4.0
BEAA	ORTHOPEDIC CLINIC NH	160	\$15,004.00	2.1	12		0.2		7, 10, 10	0.3	\$2,359.00	0.5
BFAA	PSYCHIATRY CLINIC NH	42	\$3.846.15	0.5	103		2.7			1.3	\$9,748.00	2.1
BERA	1 DI CHULUGI / PSYCHIAIRY	112	\$10 107 AA		29		0.4		\$3.007.07	1.1	\$2,294.00	0.5
BFDA	MENTAL HEALTH NH	3	\$263.15	1.3	55	\$2,245.90	9.0		\$4,832.10	1.7		1.:
BFFA	MENTAL HEALTH NH SUBSTANCE ABUSE CLINIC NH	16	\$1,584.00	0.0				5	\$168.15	0.1	\$95.00	5.5
BGAA	FAMILY PRACTICE CLINIC NH	077	\$92,234.60	0.2		\$811.60	0.3		\$778.40	0.3	\$694.00	5.:
BGAZ	FAMILY PRACTICE NAVAL WEAPON O	405	\$36,833.55	12.0	540			1,559	\$33,622.04	11.9		:2.5
BHAE	AMBULATORY CARE CLINIC NH	075	\$92,601.00	8.4		\$10,726.05	3.7		\$13,833.95	4.9	\$15,168.55	3.2
BHAZ	PRIMARY CARE CLINIC NAVAL WEAR	, , ,	\$219.45	12.1	422	\$25;919.35	9.0	1,420	\$24,955.65	8.8	\$73,026.00	15.4
BHCA	OPTOMETRY CLINIC NH	1	₹£17.40	0.0	1	\$54.87	0.0	4	\$18.28	0.0	\$241.30	2.:
BHCY	OPTOMETRY CLINIC NH OPTOMETRY NAVAL STATION	7	\$//.UU	0.0				1	\$0.00	0.0	\$77.00	2.5
BHHA	NAVCARE NH	070	\$673.00	0.1		\$77.00		7	\$0 00	0.0	\$497.00	
BHHE	NAVCARE NH NAVCARE NH	1 507	*100 000 00	10.7	795	\$42,342.95	14.7	2,185	\$69,411.69	24.5	\$42,201.15	: . :
BIAA	EMERGENCY MEDICAL CLINIC NO.		*10///EG.EG	14.3	7/6	\$22,821,61	7.9	2,190	\$21,200.64		\$64,804.15	.3
CAAA	ORAL SURGERY NH	413	\$40,723.00	5.3	145	\$9,862.02	3.4	580	\$8,692.98		\$30,068.30	
DAAA	PHARMACY NH	27	\$2,679.00	0.3	19	\$1,235.35	0.4	54	\$1,451.65	0.5	\$2,108.30	1,1
FCGA	CIVILIAN HUMANITARIAN	135	\$17,018.37	2.5	46	\$5.052.60	1.7	197	\$5,254.40		\$18,199.32	
PAAA	PURCHASED HEALTH NH		\$453.00	0.1				5	\$0.00	0.0	\$453.30	3.5
PAAB	WORKER'S COMP	113	\$34,775.48	4.5		\$24,405.62	8.4	192	\$17,174.65		\$28,718.52	:.:
PAAC	CHRONIC PAIN CLINIC	46	\$2,554.00	0.3		\$1,858.00	0.6	33	\$196.00	0.1	\$400.30	:.: :.:
		4	\$397.00	0.1		\$100.00	0.0		\$0.00	0.0	\$297.10	
TOTALS	:	0 100 4	7/0 074								*£17U	
	ORAL SURGERY NH PHARMACY NH CIVILIAN HUMANITARIAN PURCHASED HEALTH NH WORKER'S COMP CHRONIC PAIN CLINIC :	======	768.074.74		. 4 23 :	\$288,882.26 =========	1	3,518	\$283,705.72 ========	1	473-556.53	
									========	=		

THIRD PARTY COLLECTIONS: SUMMARY REPORT 2nd QTR-FY 93

NAVAL MTF8	CUMULATIVE BILLINGS	FY 93 COLLECTIONS	FY 91/92 COLLECTIONS	TOTAL COLLECTIONS
BEAUFORT	403,275.30	92,442.52	64,874.74	147,017.26
BREMERTON	465,877.00	71,579.68	62,419.89	133,999.55
CAMP LEJEUNE	553,410.00	148,503.47	157,096.40	305,599.87
CAMP PENDLETON	384,373.00	34,758,27	82,798.88	117,554.95
* CHARLESTON	2,270,759.70	₩ 807,495.50	253,973.48	1,061,468.98
' CHERRY POINT	80,416.00	28,329.36	12,825.75	41,155.11
CORPUS CHRISTI	175,031.80	49,705.08	65,690.47	115,395.55
GREAT LAKES	522,716.00	85,934.15	- 125,694.48	211,628.63
GROTON	361,910.80	83,039.26	57,801.00	150,840.28
GUAM	8,951.00	0.00	1,095.70	1,095.70
JACKSONVILLE	1,112,514,45	281,290.42	228,678.00	509,968.42
KEFLAVIK	8,541.00	6,570.00	0.00	6,570.00
LEMOORE	12,658.00	1,872,91	11,052.50	12,725.41
LONGBEACH	85,509.00	23,069.87	21,859.12	44,928.99
MILLINGTON	153,797.00	55,535.54	23,170.82	78,706.36
N.N.M.C.	4,100,060.00	978,206.07	977,146.28	1,955,352,35
NEWPORT	31,738.00	0,00	0.00	0.00
OAKLAND	1,601,206.25	134,357.79	373,545.00	507,802.79
OKINAWA	0.00	0.00	0.00	0.00
ORLANDO	790,341.80	231,011.50	125,990.08	357,001.58
PAX RIVER	. 24,688.00	6,358.18	21,518.78	27,876.96
PENSACOLA	1,225,859.00	231,473.06	161,326.44	392,799.50
PORTSMOUTH	3,754,824.75	655,283.20	513,974.40	1,169,237.60
SAN DIEGO	2,950,689.00	627,034,83	749,772.40	1,376,807.23
TWENTY NINE HALMS	24,337.00	5,083.74	12,170.05	17,253.79
TOTALS	\$21,051,061.85	\$4,648,712.38	\$4,094,174.46	\$8,742,886.84

RADIOLOGY WORKLOAD

	100																
	JAN	FEB	MAR	APR	MAY	Jun] anr	AUG	SEP	OCT	NOV	DEC	1994 JAN	ਜੁਸ਼	MAR	APR	
CT	192	212	204	197	204	239	191	211	167	222	202	187	187	214	216	207	
MRI	78	111	105	89	118	146	119	103	101	94	120	92	09	111	97	106	
ULTRASOUND	281	346	326	345	347	339	303	402	359	327	387	384	507	519	9	1 20	
IVP/CYSTO/VCUG	31	51	35	33	21	28	70	75	72	102	76	59	42	50	53	1	
NUCMED	81	86	81	83	9.7	106	83	81	70	81	78	61	99	82	72	71	
MAMMO	105	174	163	178	206	181	175	172	128	167	246	221	261	247	292	241	
FLUORO	83	128	149	135	117	123	116	119	100	95	94	72	76	77	136	130	
PLAIN FILMS	3153	2989	2918	3189	2693	2535	2177	2345	2452	2478	2378	2396	3595	3228	2865	2361	
PORTABLES	328	@45	324	326	230	384	171	176	184	281	372	207	299	237	295	236	
UROLOGY	090	090	090	090	090	090	090	090	Ø60	090	09	50	54	65	75	68	
CLINICS									@100	685	728	701	508	746	693	588	,
TOTAL	4392	4214	4365	4635	4039	4141	3465	3744	4393	4592	4741	4430	5655	5593	5402	4638	
														_	_		

RADIOLOGY WORKLOAD

	1992 AUG	SEP	OCT	NOV	DEC	1993 JAN	FEB	MAR	APR	MAY	אטני	JUL	AUG	SEP	OCT	NOV	DEC
$^{ m CI}$	166	167	172	203	176	192	212	204	197	204	239	191	211	167	222	202	
MRI	69	49	64	81	84	78	111	105	89	118	146	119	103	101	94	120	
ULTRASOUND	8TE	349	344	373	285	281	346	326	345	347	339	303	402	359	327	387	
IVP/CYSTO/VCUG	89	63	32	36	33	31	51	35	33	21	28	70	75	72	102	92	
NUCMED	48	06	80	66 !	84	81	98	81	83	97	106	83	81	70	81	78	
MAMMO	04T	140	132	174	100	105	174	163	178	206	181	175	172	128	167	246	
FLUORO	105	118	132	100	92	83	128	149	135	117	123	116	119	100	95	94	
PLAIN FILMS	2587	2770	2575	2933	2357	3153	2989	2918	3189	2693	2535	2177	2345	2452	2478	2378	
PORTABLES	@300	@300	295	@300	245	328	@45	324	326	230	384	171	176	184	281	372	
UROLOGY	090	09@	090	090	09@	09@	090	090	090	09®	09®	090	090	090	090	09	
CLINICS														@700	685	728	
TOTAL	3925	4106	3886	4359	3500	4392	4214	4365	4635	4039	4141	3465	3744	4393	4592	4741	F

SUMMARY OF RADIOLOGICAL PROCEDURES FY 93 DATA 01 OCT 92 TO 30 SEP 93

OUTPATIENT ONLY

NOTE: THIS DATA REPRESENTS ALL OUTPATIENT RADIOLOGICAL PROCEDURES REPORTED TO DATE FOR FY 93. ADDITIONAL PROCEDURES FOR THIS FY MAY NOT HAVE BEEN REPORTED YET.

NUMBER OF EXAMS PERFORMED FY 93

EXAM	CHAMPUS DATABASE	SUPPLEMNT MEDICINE DATABASE	SUPPLEMNT INPATIENT & MEDICINE OUTPATIENT DATABASE RADIOLOGY	NAVCARE	TOTAL EXAMS
GI TRACT THAI I IIM	 681 95	& 0	1,380 N/A	00	2,069
NUC MED	413	32	1,044	00	1,489
MAMMOGRAPHY	754	479	1,884	2,037	5,154
MR!- GENERAL X-RAY	376	1,159	CONTRACT	0 0 2 479	1,535 74,849
CARDIAC/ARTERIAL/VENOUS RADIATION THERAPY	73 73 1,763	58 67	000	000 : i	131
	35,059	2,015	======================================	4,516	98,710

•						
CPT	PROCEDURE CISTERNOGRAPHY FOREIGN OBJ EYE MANDIBLE < 4 VW MANDIBLE >= 4 VW MASTOIDS >= 3 VIEWS FACIAL < 3 VWS FACIAL >= 3 VWS NASAL OPTIC FORAMINA >= 4 VWS SINUSES, PARANASAL < 3 VW SINUSES, PARANASAL < 3 VW SINUSES >= 4 VWS SELLA TURCICA SKULL < 4 VW SKULL >= 4 VWS TEETH, SINGLE VW TEETH, FULL MOUTH TMJ BILAT ARTHROGRAPHY TMJ CEPHALOGRAM ORTHOPANTOGRAM NECK, SOFT TISSUE PHARYNX SIALOGRAPHY CHEST PA CHEST, TWO VIEWS CHEST, TWO VIEWS CHEST, TWO VIEWS CHEST, AP, LAT, OBLIQUE CHEST, 2 VWS WITH FLUOROSCOPY CHEST SPECIAL VW INTRATHORACIC LESION NEEDLE BI BRONCHOGRAPHY BILAT RIBS, UNLIAT 2 VW RIBS, UNLIAT 2 VW RIBS, BILAT 3 VW RIBS, BILAT 3 VW RIBS, BILAT 3 VW RIBS, BILAT 3 VW STERNOM 2 VW STERNOM 2 VW STERNOCLAVICULAR JOINT >= 3 VW SPINE, SURVEY STUDY AP & LAT SPINE, SINGLE VW C-SPINE AP & LAT C-SPINE >= 4 VW C-SPINE AP & LAT T-SPINE STANDING T-SPINE STANDING T-SPINE AP & LAT T-SPINE AP & LAT T-SPINE BAP & LAT T-SPINE AP & LAT	MIMDED OF	TOTAL		TOTAL	
CODE	PROCEDURE	NUMBER OF	AMOUNT	AVG AMT	AMOUNT	AVG AMT
70015	CISTERNOGRAPHY	1	157.00	157.00	ALLOWED 58.00	ALLOWED 58.00
70030	FOREIGN OBJ EYE	4	390.00	97.50	248.00	62.00
70100	MANDIBLE < 4 VW	7	70.00	10.00	70.00	10.00
70110 70130	MANDIBLE >= 4 VW	15	380.00	25.33	222.00	14.80
70130	FACTAL > 3 VMC	3	65.00	21.67	53.00	17.67
70150	FACIAL >= 3 VWS	5 64	235.00	47.00 26.52 14.92	89.00	17.80
70160	NASAL	72	1074.00	40.52 14 92	1096.00 758.00	17.13 10.53
70200	OPTIC FORAMINA >= 4 VWS	36	844.00	23.44	641.00 5776.00 8121.00 63.00 1412.00 625.00	17.81
70210	SINUSES, PARANASAL < 3 VW	304	6944.00	22.84	5776.00	19.00
70220	SINUSES >= 4 VWS	373	13556.00	36.34	8121.00	21.77
70240 70250	SELLA TURCICA	3	71.00	23.67	63.00	21.00
70250	SKIII.I. >= 4 VWS	89	2709.00	30.44	1412.00	15.87
70300	TEETH, SINGLE VW	1	1087.00	12 00	12.00	24.04
70320	TEETH, FULL MOUTH	14	569.00	40.64	12.00 525.00	12.00 37.50
70330	TMJ BILAT	8	838.00	104.75	344.00	43.00
70332	ARTHROGRAPHY TMJ	5	300.00	60.00	246.00	49.20
70350	CEPHALOGRAM	1	85.00	85.00	30.00	30.00
70355 70360	ORTHOPANTOGRAM	19	923.00	48.58	617.00	32.47
70370	PHARVNY	60 11	1097.00	18.28	617.00 608.00 209.00 40.00 14579.00 57426.00 114.00 67.00 118.00 20.00 69.00 72.00 29.00 111.00	10.13
70390	SIALOGRAPHY	1	60.00	60 00	209.00	19.00
71010	CHEST PA	1281	28292.00	22.09	14579 00	40.00 11.38
71020	CHEST, TWO VIEWS	3870	87542.00	22.62	57426.00	14.84
71021	CHEST APICAL LORDOTIC	6	152.00	25.33	114.00	19.00
71022	CHEST, AP, LAT, OBLIQUE	4	84.00	21.00	67.00	16.75
71030 71023	CHEST >= 4 VW	6	187.00	31.17	118.00	19.67
71023	CHEST, 2 VWS WITH FLUOROSCOPY	1	47.00	47.00	20.00	20.00
71035	CHEST SPECIAL VW	3	91.00	30.33	69.00	23.00
71036	INTRATHORACIC LESION NEEDLE BI	1	29 00	29 00	72.00	10.29 29.00
71060	BRONCHOGRAPHY BILAT	2	240.00	120.00	111.00	55.50
71100	RIBS, UNILAT 2 VW	55	1929.00	35.07	840.00	15.27
71101	RIBS UNLIAT >= 3 VW	40	802.00	20.05	678.00	16.95
71110	RIBS, BILAT 3 VW	4	57.00	14.25	57.00	14.25
71111 71120	RIBS, BILAT >=4 VW	2	84.00	42.00	46.00	23.00
71120	STERNOT 2 VW	20	536.00	26.80	317.00	15.85
72010	SPINE, SURVEY STUDY AP & LAT	3	326.00	108 67	55.00 148.00	27.50 49.33
72020	SPINE, SINGLE VW	19	763.00	40.16	285.00	15.00
72040	C-SPINE AP & LAT	215	6718.00	31.25	3710.00	17.26
72050	C-SPINE >= 4 VW	364	9497.00	26.09	7021.00	19.29
72052	C-SPINE AP & LAT C-SPINE AP & LAT C-SPINE AP, LAT, OBLIQUE, FLEXION T-SPINE STANDING T-SPINE AP & LAT T-SPINE AP & LAT SCOLIOSIS W SUPINE & ERECT L-SPINE AP & LAT L-SPINE AP/LAT/OBLIQUE L-SPINE AP/LAT/OBLIQUE LUMBOSACRAL BENDING >= 4 VW PELVIS AP	92	6718.00 9497.00 3238.00 309.00 3157.00 646.00 1689.00 195.00 12993.00 5308.00 574.00	35.20	2498.00	27.15
72069 72070	T-SPINE SIANDING	7	309.00	44.14 26.98	221.00	31.57
72070	T-SPINE AP/LAT/SWIMMER	23	646 00	26.98 28.09	1882.00 425.00	16.09
72080	THORACOLUMBAR AP & LAT	47	1689.00	35.94	929.00	18.48 19.77
72090	SCOLIOSIS W SUPINE & ERECT	15	195.00	35.94 13.00	105 00	13.00
72100	L-SPINE AP & LAT	373	12993.00	34.83	7012.00	18.80
72110	L-SPINE AP/LAT/OBLIQUE	147	5308.00	36.11	3627.00	24.67
72114	L-SPINE AP/LAT/OBLIQUE/BENDING	11	574.00	52.18	369.00	33.55
72120 72170	PELVIS AP	136	265.00	53.00	128.00	25.60
72190	PELVIS >= 3 VW	15	3963.00 267.00	29.14 17.80	2301.00 210.00	16.92 14.00
72200	SACROILIAC < 3 VW	1	28.00	28.00	15.00	15.00
72202	SACROILIAC >= 3 VW	8	177.00	22.13	133.00	16.63
72220	SACRUM/COCCYX >= 2 VW	29	852.00	29.38	439.00	15.14
72240	MYELOGRAPHY CERVICAL	27	3248.00	120.30	2674.00	99.04
72265 72270	MYELOGRAPHY LUMBOSACRAL MYELOGRAPHY ENTIRE SPINAL CANA	41	4530.00	110.49	3567.00	87.00
72285	DISCOGRAPHY CERVICAL	8	1915.00	239.38	1090.00	136.25
73000	CLAVICLE	1 60	350.00 1074.00	350.00 17.90	350.00 756.00	350.00
73010	SCAPULA	15	461.00	30.73	245.00	12.60 16.33
73020	SHOULDER 1 VW	229	4272.00	18.66	2620.00	11.44
73030	SHOULDER >= 2 VW	181	7399.00	40.88	3733.00	20.62
73040	ARTHROGRAPHY SHOULDER	10	701.00	70.10	490.00	49.00
73050	ACROMIOCLAVICULAR BILAT W & W/	8	255.00	31.88	163.00	20.38
73060 73070	HUMERUS >= 2 VW ELBOW AP & LAT ,	112	1966.00	17.55	1522.00	13.59
73070	ELBOW >= 3 VW	83 297	3416.00 3883.00	41.16	1959.00	23.60
73090	FOREARM AP & LAT	334	4249.00	13.07 12.72	3331.00 3442.00	11.22 10.31
	WRIST AP & LAT	679	10774.00	15.87	8265.00	10.31
	WRITS >= 3 VW	190	7183.00	37.81	3945.00	20.76
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MANAGED CARE QUERY APPLICATION (MCQA) SUMMARY OF CHAMPUS RADIOLOGICAL PROCEDURES - OUTPATIENT ONLY FY-93 DATA 01 OCT 92 TO 30 SEP 93

			TOTAL		TOTAL	
CPT		NUMBER OF	AMOUNT	AVG AMT		AVG AMT
CODE	PROCEDURE ARTHROGRAPHY WRIST HAND 2 VW HAND >= 3 VW FINGER HIP UNILAT 1 VW HIP UNILAT 1 VW HIP BILAT FEMUR AP & LAT KNEE AP & LAT KNEE AP, LAT, OBLIQUE KNEE AP, LAT, OBLIQUE, TUNNEL KNEE, BILAT STANDING AP TIBIA/FIBULA AP & LAT ANKLE AP & LAT ANKLE AP & LAT ANKLE >= 3 VW FOOT AP & LAT FOOT >= 3 VW CALCANEUS TOE ABDOMEN AP ABDOMEN AP/OBLIQUE/CONE ABDOMEN AP/OBLIQUE/CONE/DECUBI	SERVICES	BILLED	BILLED	ALLOWED	ALLOWED
73115 73120	ARTHROGRAPHY WRIST	463	561.00 5633.00	62.33	364.00	40.44
73130	HAND >= 3 VW	176	6485.00	12.19 36.85	4868.00 3432.00	10.54 19.50
73140	FINGER	467	6872.00	14.72	4545.00	9.73
73500	HIP UNILAT 1 VW	29	1043.00	35.97	615.00	21.21
73510 73520	HIP UNILAT >= 2 VW	199	5763.00	28.96	3362.00	16.89
73550	FEMIR AP & LAT	144	1919.00 3410.00	31.98 23.68	1173.00 2041.00	19.55 14.17
73560	KNEE AP & LAT	477	11063.00	23.00	6918.00	14.17
73562	KNEE AP, LAT, OBLIQUE	139	6671.00	47.99	3008.00	21.64
73564	KNEE AP, LAT, OBLIQUE, TUNNEL	92	2934.00	31.89	1862.00	20.24
73565 73590	KNEE, BILAT STANDING AP	32	1945.00	60.78	1231.00	38.47
73600	ANKLE AP & LAT	258 535	5659.00 6480.00	21.93 12.11	3552.00 5549.00	13.77 10.37
73610	ANKLE >= 3 VW	188	7694.00	40.93	3882.00	20.65
73620	FOOT AP & LAT	343	14902.00	43.45	8496.00	24.77
73630	FOOT >= 3 VW	816	17087.00	20.94	10896.00	13.35
73650 73660	CALCANEUS	45	864.00	19.20	569.00	12.64
74000	ARDOMEN AP	109	1419.00 5221.00	13.02 26.37	1019.00 2777.00	9.35 14.03
74010	ABDOMEN AP/OBLIQUE/CONE	86	2356.00	27.40	1261.00	14.66
74020	ABDOMEN AP/OBLIQUE/CONE ABDOMEN AP/OBLIQUE/CONE/DECUBI ABDOMEN COMPLETE W CHEST PA	95	2977.00	31.34	1622.00	17.07
74022	ABDOMEN COMPLETE W CHEST PA	163	2663.00	16.34 51.13	2450.00	15.03
74400 74405	UROGRAPHY	292	14931.00	51.13	10227.00	35.02
74415	UROGRAPHY W CONT UROGRAPHY INFUSION W NEPHROTOM	· 1	81.00 7075.00	81.00 141.50	40.00 3534.00	40.00 70.68
74420	UROGRAPHY RETROGRADE	2		81.00 141.50 93.33	85.00	28.33
74425	UROGRAPHY, ANTEGRADE	3	147.00	49.00	89.00	29.67
74430	CYSTOGRAPHY >= 3 VW	13	849.00	65.31	335.00	25.77
74450 74455	URETHROCYSTOGRAPHY RETROGRADE		266.00	24.18		24.09
74455	URETHROCYSTOGRAPHY VOIDING RENAL CYST TRANSLUMBAR CONT	37 17		44.22 27.41	1221.00 451.00	33.00 26.53
74475	RENAL CYST TRANSLUMBAR CONT RENAL PELVIS CATHETER DRAINAGE	4	487.00	121.75	451.00 295.00 1340.00 1612.00 123.00 36.00	73.75
74740	HYSTEROSALPINGOGRAPHY	42 65	1608.00	38.29	1340.00	31.90
76000	FLUOROSCOPY < 1 HR	65	3127.00	48.11	1612.00	24.80
76001 76003	FLUOROSCOPY > 1 HR FLUORO LOCALIZATION NEEDLE BIO FOREIGN BODY CHILD	3	450.00 150.00	150.00	123.00	41.00
76010	FOREIGN BODY CHILD	1	20.00	20.00	14.00	36.00 14.00
76020			1155 00	21.39		12.56
76040	BONE LENGTH	18	1150.00	63.89	559.00	31.06
76062 76066	OSSEOUS SURVEY AXIAL & APPENDI	5	293.00	58.60		33.80
76096	BREAST NEEDLE LOCAL PREOD	42	2842 00	27.33 67.67	144.00 2118.00	24.00 50.43
76097	BREAST NEEDLE LOCAL PREOP	2	61.00	30.50	61.00	30.50
76098	BREAST SURGICAL SPECIMEN	28	295.00	10.54	276.00	9.86
76100	SINGLE PLANE BODY SECTION	5	345.00	69.00	277.00	55.40
76140 76499	BONE AGE BONE LENGTH OSSEOUS SURVEY AXIAL & APPENDI JOINT SURVEY SINGLE VIEW BREAST NEEDLE LOCAL PREOP BREAST NEEDLE LOCAL PREOP BREAST SURGICAL SPECIMEN SINGLE PLANE BODY SECTION CONSULTATION X-RAY EXAM UNLIST DIGN X-RAY PROCEDURE	11770	348.00	87.00	113.00	28.25
10433		11738	2159074.00		2021970.00	172.26
		27,895	2,580,582			
		•				
	THALLIUM STRESS					
78460	MYOCARDIAL PERFUSION SINGLE	1	100.00	100.00	64.00	64.00
78461	MYOCARDIAL PERFUSION SINGLE MYOCARDIAL PERFUSION MULTIPLE	1 22	2806.00	127.55	2203.00	100.14
78465	MYOCARDIAL PERFUSION (SPECT)	72	10709.00			143.24
		95	13615		12580	
	NUCLEAR MEDICINE					
78000	THYROID UPTAKE SINGLE	1	40.00	40.00	35.00	35.00
78001	THYROID UPTAKE MULTIPLE	1	35.00	35.00	28.00	28.00
78006	THYROID IMAGE W SINGLE UPTAKE		217.00	72.33	140.00	46.67
78007	THYROID IMAGE W MULTIPLE UPTAK		1306.00	52.24	1101.00	44.04
78010 78015	THYROID IMAGE ONLY THYROID CARCINOMA IMAGING LIMI	13 1	604.00 33.00	46.46 33.00	432.00 33.00	33.23 33.00
78018	THYROID CARCINOMA IMAGING WHOL		1063.00	96.64	916.00	83.27
78070	PARATHYROID IMAGING	1	171.00	171.00	30.00	30.00
78075	ADRENAL IMAGING	1	300.00	300.00	46.00	46.00
78110	PLASMA VOLUME	2	88.00	44.00	42.00	21.00
78121 78185	RED CELL VOLUME MULT SAMPLES SPLEEN IMAGING ONLY	2 1	132.00 81.00	66.00 81.00	68.00 32.00	34.00 32.00
78215	LIVER/SPLEEN IMAGE	9	840.00	93.33	554.00	61.56
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MANAGED CARE QUERY APPLICATION (MCQA) SUMMARY OF CHAMPUS RADIOLOGICAL PROCEDURES - OUTPATIENT ONLY FY-93 DATA 01 OCT 92 TO 30 SEP 93

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СРТ		NUMBER OF	TOTAL	ልህር ልለጥ	TOTAL	አህር፡ አለጥ
CODE	PROCEDURE	SERVICES	BILLED	BILLED	ALLOWED	ALLOWED
78216	LIVER/SPLEEN W VASCULAR FLOW	2	260.00	130.00	88.00	44.00
78220	LIVER FUNCTION STUDY/SERIAL IN	1 3	296.00	98.67	100.00	33.33
78223	HEPATOBILIARY DUCTAL SYSTEM W	17	1737.00	102.18	725.00	42.65
78254	CONTINUE W/O INTERNET PACTOR	7	675.00	96.43	312.00	44.57
78271	SCHILLING W INTRINSIC FACTOR	1	92.00	92.00	23.00	23.00
78272	SCHILLING W & W/O INTRINSIC FA	. 2	78.00	39.00	48.00	24.00
78280	GI BLOOD LOSS STUDY	1	110.00	110.00	34.00	34.00
78300	BONE LIMITED AREA	30	2064.00	68.80	1545.00	51.50
78305	BONE MULTIPLE AREAS	23	3950.00	171.74	3950.00	171.74
78306	BONE WHOLE BODY	121	12359.00	102.14	10091.00	83.40
70315	CADDIAC CHIMT DETECTION	12	1822.00	151.83	1210.00	100.83
78457	VENOUS THROMBOSIS UNILAT	1	46.00	46.00	32.00 46.00	32.00 46.00
78464	MYOCARDIAL SPECT SINGLE STUDY	4	81.00	20.25	81.00	20.25
78469	MYOCARDIAL INFARCT (SPECT)	40	3314.00	82.85	3168.00	79.20
78472	CARDIAC BLOOD POOL GATED	13	1666.00	128.15	1315.00	101.15
78580	MYOCARDIAL PERFUSION EJECTION	10	916.00	91.60	336.00	33.60
78585	PULMONARY PERFUSION REBREATH/W	2	418.00	209.00	100.00	50.00
78593	PULMONARY VENT GASEOUS REBREAT	6 1	581.00	96.83	228.00	38.00
78607	BRAIN (SPECT)	Ř	1204 00	150 50	508.00	54.00 63.50
78701	KIDNEY W VASCULAR FLOW	10	1228.00	122.80	571.00	57.10
78704	KIDNEY WITH FUNCTION STUDY	1	45.00	45.00	45.00	45.00
78707	KIDNEY W VAS FLOW/FUNCTION STU	6	850.00	141.67	566.00	94.33
78710	KIDNEY IMAGING (SPECT)	1	122.00	122.00	71.00	71.00
78726	KIDNEY FUCTION W PHARMACOLOGIC	5	685.00	137.00	225.00	45.00
78740	URETERAL REFLUX	1	85.00	85.00	30.00	30.00
78902	TESTICULAR W VASCULAR FLOW TIMOD LOCALTRATION WHOLE DODY	2	160.00	80.00	95.00	47.50
78805	ABSCESS LOCALIZATION WHOLE BODI	1	53.00	53.00	53 00	53.50
78890	GENERATION OF AUTOMATED DATA	ī	22.00	22.00	20.00	20.00
78990	PROVISION OF DIAG RADIONUCLIDE	3	66.00	22.00	66.00	22.00
78999	UNLISTED NUC MED PROCEDURE	2	961.00	480.50	961.00	480.50
79000	HYPERTHYROIDISM THERAPY	1	179.00	179.00	94.00	94.00
		413	41679		30450	
					20420	
	MAMMOGRAPHY					
76000	PROCEDURE LIVER/SPLEEN W VASCULAR FLOW LIVER FUNCTION STUDY/SERIAL IN HEPATOBILIARY DUCTAL SYSTEM W GASTRIC EMPTYING STUDY SCHILLING W/O INTRINSIC FACTOR SCHILLING W INTRINSIC FACTOR SCHILLING W & W/O INTRINSIC FA GI BLOOD LOSS STUDY BONE LIMITED AREA BONE MULTIPLE AREAS BONE WHOLE BODY BONE THREE PHASE STUDY CARDIAC SHUNT DETECTION VENOUS THROMBOSIS UNILAT MYOCARDIAL SPECT SINGLE STUDY MYOCARDIAL INFARCT (SPECT) CARDIAC BLOOD POOL GATED MYOCARDIAL PERFUSION EJECTION PULMONARY PERFUSION EBREATH/W PULMONARY VENT GASEOUS REBREAT BRIAN WITH VASCULAR FLOW BRAIN (SPECT) KIDNEY W VASCULAR FLOW KIDNEY W VAS FLOW/FUNCTION STUDY KIDNEY W WAS FLOW/FUNCTION STU KIDNEY WITH FUNCTION W PHARMACOLOGIC URETERAL REFLUX TESTICULAR W VASCULAR FLOW TUMOR LOCALIZATION WHOLE BODY ABSCESS LOCALIZATION LIMITED GENERATION OF DIAG RADIONUCLIDE UNLISTED NUC MED PROCEDURE HYPERTHYROIDISM THERAPY MAMMOGRAPHY SINCLE REPEACT	107	2480.00	22.26	2160.00	20.27
76090 76091	MAMMOGRAPHY SINGLE BREAST BILAT BREAST	107 552	2489.00	23.26	2169.00	20.27
76090 76091 76092	MAMMOGRAPHY SINGLE BREAST BILAT BREAST SCREENING	107 552 95	2489.00 16969.00 5764.00	23.26 30.74 60.67	2169.00 15674.00 5597.00	20.27 28.39 58.92
76090 76091 76092	MAMMOGRAPHY SINGLE BREAST BILAT BREAST SCREENING	107 552 95	2489.00 16969.00 5764.00	23.26 30.74 60.67	2169.00 15674.00 5597.00	20.27 28.39 58.92
76090 76091 76092	MAMMOGRAPHY SINGLE BREAST BILAT BREAST SCREENING	107 552 95 	2489.00 16969.00 5764.00	23.26 30.74 60.67	2169.00 15674.00 5597.00 	20.27 28.39 58.92
76090 76091 76092	SINGLE BREAST BILAT BREAST SCREENING	107 552 95 754	2489.00 16969.00 5764.00 	23.26 30.74 60.67	2169.00 15674.00 5597.00 	20.27 28.39 58.92
76090 76091 76092	SINGLE BREAST BILAT BREAST SCREENING	107 552 95 754	2489.00 16969.00 5764.00 	23.26 30.74 60.67	2169.00 15674.00 5597.00 	20.27 28.39 58.92
76090 76091 76092	SINGLE BREAST BILAT BREAST SCREENING	107 552 95 754	2489.00 16969.00 5764.00 	23.26 30.74 60.67	2169.00 15674.00 5597.00 	20.27 28.39 58.92
76090 76091 76092	SINGLE BREAST BILAT BREAST SCREENING	107 552 95 754	2489.00 16969.00 5764.00 	23.26 30.74 60.67	2169.00 15674.00 5597.00 	20.27 28.39 58.92
76090 76091 76092	SINGLE BREAST BILAT BREAST SCREENING	107 552 95 754	2489.00 16969.00 5764.00 	23.26 30.74 60.67	2169.00 15674.00 5597.00 	20.27 28.39 58.92
76090 76091 76092	SINGLE BREAST BILAT BREAST SCREENING	107 552 95 754	2489.00 16969.00 5764.00 	23.26 30.74 60.67	2169.00 15674.00 5597.00 	20.27 28.39 58.92
76090 76091 76092	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN	107 552 95 754	2489.00 16969.00 5764.00 	23.26 30.74 60.67	2169.00 15674.00 5597.00 	20.27 28.39 58.92
76090 76091 76092 76506 76511 76512 76516 76519 76536 76604	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST	107 552 95 754 14 2 4 1	2489.00 16969.00 5764.00 25222 739.00 162.00 642.00 160.00 2532.00	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36
76090 76091 76092 76506 76511 76512 76516 76519 76536 76604 76645	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST	107 552 95 754 14 2 4 1 14 16 2 68	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50 54.50 47.90	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 31.75
76090 76091 76092 76506 76511 76516 76519 76536 76604 76645 76700	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL	107 552 95 754 14 2 4 1 14 16 2 68 68	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.00 180.86 73.50 54.50 47.90 95.06	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 31.75 60.45
76090 76091 76092 76506 76511 76512 76516 76519 76536 76604 76645 76700 76705	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY ENERGY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL LIMITED	107 552 95 754 14 2 4 1 14 16 2 68 64 312	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.50 180.86 73.50 54.50 47.90 95.06 69.04	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 98.00 118.36 49.88 43.50 31.75 60.45 40.35
76090 76091 76092 76506 76511 76512 76516 76516 76504 76604 76645 76700 76705 76770	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL ABTOPERITONEAL	107 552 95 754 14 2 4 1 16 2 68 64 312 79	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50 54.50 47.90 95.06 69.04 97.61	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 31.75 60.45 40.35 62.05
76090 76091 76092 76506 76511 76512 76516 76536 76604 76645 76700 76770 76775	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL ABTOPERITONEAL RETROPERITONEAL RETROPERITONEAL LIMITED	107 552 95 754 14 2 4 1 16 2 68 64 312 79 10	2489.00 16969.00 5764.00 	52.79 81.00 160.50 160.00 180.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 43.50 31.75 60.45 40.35 62.05 40.00
76090 76091 76092 76506 76511 76516 76519 76536 76604 76604 76645 76700 76775 76775	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL ABTROPERITONEAL RETROPERITONEAL PREGNANT UTERUS	107 552 95 754 14 2 4 1 14 16 2 68 64 312 79 10 38	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00 54.84	2169.00 15674.00 5597.00 	30.57 81.00 98.00 76.00 118.36 49.88 43.50 60.45 40.35 62.05 40.00 52.32
76090 76091 76092 76506 76511 76512 76516 76536 76604 76645 76700 76770 76775	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL ABTOPERITONEAL RETROPERITONEAL RETROPERITONEAL LIMITED	107 552 95 754 14 2 4 1 16 2 68 64 312 79 10	2489.00 16969.00 5764.00 	52.79 81.00 160.50 160.00 180.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 43.50 31.75 60.45 40.35 62.05 40.00
76090 76091 76092 76506 76511 76512 76516 76536 76604 76645 76700 76770 76770 76770 76805 76805 76815 76815 76825	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL LIMITED RETROPERITONEAL RETROPERITONEAL RETROPERITONEAL LIMITED PREGNANT UTERUS	107 552 95 754 14 2 4 1 14 16 2 68 64 312 79 10 38 2	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.50 180.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00 54.84 153.50	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 118.36 49.88 43.50 31.75 62.05 40.35 62.05 40.00 52.32 76.50
76090 76091 76092 76506 76511 76516 76519 76536 76604 76604 76675 76705 76775 76805 76815 76818 76825 76830	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL ABDOMINAL LIMITED RETROPERITONEAL RETROPERITONEAL PREGNANT UTERUS PREGNANT	107 552 95 754 14 2 4 1 16 2 68 64 312 79 10 38 2 10 3	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00 54.84 153.50 192.50 194.33 183.41	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 43.50 31.75 60.45 40.35 62.05 40.00 52.32 76.50 106.00 75.67 122.23
76090 76091 76092 76506 76511 76516 76519 76536 76604 76700 76775 76805 76770 76775 76818 76825 76830 76856	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND HEAD OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL LIMITED RETROPERITONEAL RETROPERITONEAL RETROPERITONEAL LIMITED PREGNANT UTERUS PREGNANT UTERUS PREGNANT UTERUS LIMITED FETAL BIOPHYSICAL PROFILE FETAL CARDIOVASCULAR SYSTEM TRANSVAGINAL PELVIC NONOBSTETRIC	107 552 95 	2489.00 16969.00 5764.00 	23.26 30.74 60.67 52.79 81.00 160.50 160.50 160.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00 54.84 153.50 192.50 194.33 183.41 82.89	2169.00 15674.00 5597.00 	30.57 81.00 98.00 76.00 118.36 49.88 43.50 31.75 60.45 40.00 52.32 76.50 106.00 75.67 122.23 59.67
76090 76091 76092 76506 76511 76512 76516 76519 76536 76604 76705 76770 76775 76805 76805 76818 76825 76830 76856 76830	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL LIMITED RETROPERITONEAL RETROPERITONEAL RETROPERITONEAL LIMITED PREGNANT UTERUS PREGNANT UTERU	107 552 95 	2489.00 16969.00 5764.00 5764.00 25222 739.00 162.00 642.00 160.00 2532.00 1176.00 109.00 3257.00 6084.00 21539.00 7711.00 590.00 2084.00 2009.00 46584.00 277.00	23.26 30.74 60.67 52.79 81.00 160.50 160.50 160.86 73.50 47.90 95.06 69.04 97.61 59.00 54.84 153.50 192.50 194.33 183.41 82.89 92.33	2169.00 15674.00 5597.00 23440 428.00 162.00 392.00 76.00 76.00 2159.00 3869.00 12588.00 4902.00 400.00 1988.00 153.00 1060.00 227.00 14667.00 3344.00	20.27 28.39 58.92 30.57 81.00 98.00 118.36 49.88 43.50 31.75 62.05 40.00 52.32 76.50 106.00 75.67 122.23 59.67 46.67
76090 76091 76092 76506 76511 76512 76516 76519 76536 76604 76705 76705 76770 76775 76805	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL LIMITED RETROPERITONEAL RETROPERITONEAL RETROPERITONEAL LIMITED PREGNANT UTERUS PREGNANT UTERUS PREGNANT UTERUS FETAL BIOPHYSICAL PROFILE FETAL CARDIOVASCULAR SYSTEM TRANSVAGINAL PELVIC NONOBSTETRIC PELVIC NONOBSTETRIC SCROTUM	107 552 95 754 14 2 4 1 16 2 68 64 312 79 10 38 2 10 3 120 562 3 7	2489.00 16969.00 5764.00 25222 739.00 162.00 642.00 160.00 2532.00 1176.00 109.00 3257.00 6084.00 21539.00 2084.00 307.00 2084.00 307.00 2084.00 2084.00 277.00 778.00	23.26 30.74 60.67 52.79 81.00 160.50 160.50 180.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00 54.84 153.50 192.50 194.33 183.41 82.89 92.33 111.14	2169.00 15674.00 5597.00 23440 428.00 162.00 392.00 76.00 1657.00 798.00 87.00 2159.00 3869.00 12588.00 400.00 1988.00 1060.00 227.00 14667.00 3534.00 140.00 465.00	20.27 28.39 58.92 30.57 81.00 98.00 118.36 49.88 43.50 31.75 60.45 40.00 52.32 40.00 75.67 122.23 59.67 46.67 66.43
76090 76091 76092 76506 76511 76512 76516 76516 76604 76645 76705 76770 76775 76805 76875 76815 76818 76825 76830 76857 76870	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL LIMITED RETROPERITONEAL RETROPERITONEAL RETROPERITONEAL LIMITED PREGNANT UTERUS PREGNANT	107 552 95 754 14 2 4 1 16 2 68 64 312 79 10 38 2 10 3 120 562 3 7	2489.00 16969.00 5764.00 25222 739.00 162.00 642.00 160.00 2532.00 1176.00 109.00 3257.00 6084.00 21539.00 21539.00 21539.00 21539.00 21539.00 22009.00 46584.00 277.00 778.00 3979.00	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00 54.84 153.50 192.50 194.33 183.41 82.89 92.33 111.14 198.95	2169.00 15674.00 5597.00 23440 428.00 162.00 392.00 76.00 87.00 2159.00 3869.00 12588.00 4902.00 400.00 1988.00 1060.00 227.00 14067.00 33534.00 140.00 465.00 2272.00	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 31.75 60.45 40.35 62.05 40.00 52.32 76.50 106.00 75.67 122.23 59.67 46.67 66.43 113.60
76090 76091 76092 76506 76511 76512 76516 76519 76536 76604 76705 76705 76770 76775 76805	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL LIMITED RETROPERITONEAL RETROPERITONEAL RETROPERITONEAL LIMITED PREGNANT UTERUS PREGNANT UTERUS PREGNANT UTERUS FETAL BIOPHYSICAL PROFILE FETAL CARDIOVASCULAR SYSTEM TRANSVAGINAL PELVIC NONOBSTETRIC PELVIC NONOBSTETRIC SCROTUM	107 552 95 754 14 2 4 1 16 2 68 64 312 79 10 38 2 10 3 120 562 3 7	2489.00 16969.00 5764.00 25222 739.00 162.00 642.00 160.00 2532.00 1176.00 109.00 3257.00 6084.00 21539.00 2084.00 307.00 2084.00 307.00 2084.00 2084.00 277.00 778.00	23.26 30.74 60.67 52.79 81.00 160.50 160.50 180.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00 54.84 153.50 192.50 194.33 183.41 82.89 92.33 111.14	2169.00 15674.00 5597.00 23440 428.00 162.00 392.00 76.00 1657.00 798.00 87.00 2159.00 3869.00 12588.00 400.00 1988.00 1060.00 227.00 14667.00 3534.00 140.00 465.00	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 50.45 40.35 62.05 40.00 75.67 122.23 59.67 46.67 66.43 113.60 35.25
76090 76091 76092 76506 76511 76516 76516 76519 76536 76604 76700 76770 76805 76815 76815 76825 76857 76857 76857 76872 76880	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL LIMITED RETROPERITONEAL LIMITED PREGNANT UTERUS PREGNANT UTERUS PREGNANT UTERUS PREGNANT UTERUS LIMITED FETAL CARDIOVASCULAR SYSTEM TRANSVAGINAL PELVIC NONOBSTETRIC PELVIC NONOBS	107 552 95 	2489.00 16969.00 5764.00 5764.00 109.00 162.00 162.00 162.00 160.00 2532.00 1176.00 109.00 3257.00 590.00 21539.00 7711.00 590.00 2084.00 307.00 1925.00 583.00 2009.00 46584.00 277.00 778.00 3979.00 435.00	23.26 30.74 60.67 52.79 81.00 160.50 160.50 160.50 192.50 47.90 95.06 69.04 97.61 59.00 54.84 153.50 192.50 194.33 183.41 82.89 92.33 111.14 198.95 54.38	2169.00 15674.00 5597.00 	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 31.75 60.45 40.35 62.05 40.00 52.32 76.50 106.00 75.67 122.23 59.67 46.67 66.43 113.60
76090 76091 76092 76506 76511 765512 76516 76536 76645 76705 76770 76775 76805 76875 768818 76885 76885 768870 768970 769970 769	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND HEAD OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY LENS POWER HEAD/NECK SOFT TISSUE CHEST BREAST ABDOMINAL ABDOMINAL LIMITED RETROPERITONEAL LIMITED PREGNANT UTERUS PREGNANT UTERUS PREGNANT UTERUS PREGNANT UTERUS LIMITED FETAL BIOPHYSICAL PROFILE FETAL CARDIOVASCULAR SYSTEM TRANSVAGINAL PELVIC NONOBSTETRIC PELVIC NONOBSTETRIC SCROTUM TRANSRECTAL EXTREMITY THORACENTESIS GUIDANCE CYST/RENAL PELVIS ASPIRATION G NEEDLE BIOPSY GUIDANCE	107 552 95 754 14 2 4 1 16 2 68 64 312 79 10 38 2 10 3 120 562 3 7 20 8 2	2489.00 16969.00 5764.00 25222 739.00 162.00 642.00 160.00 2532.00 1176.00 109.00 3257.00 6084.00 21539.00 7711.00 590.00 2084.00 307.00 1925.00 583.00 22009.00 46584.00 277.00 778.00 3979.00 435.00 190.00 615.00 5516.00	23.26 30.74 60.67 52.79 81.00 160.50 160.00 180.86 73.50 54.50 47.90 95.06 69.04 97.61 59.00 54.84 153.50 192.50 194.33 183.41 82.89 92.33 111.14 198.95 54.38 95.00 123.00 172.38	2169.00 15674.00 5597.00 23440 428.00 162.00 392.00 76.00 1657.00 798.00 87.00 2159.00 3869.00 12588.00 400.00 1988.00 1060.00 227.00 14667.00 33534.00 140.00 405.00 2272.00 282.00 869.00 3869.00 2615.00	20.27 28.39 58.92 30.57 81.00 98.00 76.00 118.36 49.88 43.50 31.75 60.45 40.00 52.32 106.50 106.00 75.67 122.23 59.67 122.23 59.67 123.23 13.60 35.25 43.00 77.20 81.72
76090 76091 76092 76506 76511 76512 76516 76519 76536 76700 76775 76805 76770 76775 76805	SINGLE BREAST BILAT BREAST SCREENING ULTRASOUND HEAD OPHTHALMIC OPHTHALMIC CONTACT B-SCAN OPHTHALMIC BIOMETRY OPHTHALMIC BIOMETRY CHEST BREAST ABDOMINAL ABDOMINAL ABDOMINAL LIMITED RETROPERITONEAL RETROPE	107 552 95 754 14 2 4 1 14 16 2 68 64 312 79 10 3 120 562 3 7 20 8 2	2489.00 16969.00 5764.00 5764.00 25222 739.00 162.00 642.00 160.00 2532.00 1176.00 109.00 3257.00 6084.00 21539.00 7711.00 590.00 2084.00 307.00 1925.00 583.00 22009.00 46584.00 277.00 778.00 3979.00 435.00 190.00 615.00	23.26 30.74 60.67 52.79 81.00 160.50 160.50 160.50 169.04 97.61 59.06 69.04 97.61 59.00 194.33 183.41 82.89 92.33 111.14 198.95 54.38 95.00 123.00	2169.00 15674.00 5597.00 23440 428.00 162.00 392.00 76.00 1657.00 798.00 87.00 2159.00 400.00 12588.00 4902.00 400.00 12588.00 1060.00 227.00 14667.00 33534.00 140.00 465.00 2272.00 282.00 282.00 86.00 386.00	20.27 28.39 58.92 30.57 81.00 98.00 118.36 49.88 43.50 62.05 40.00 75.67 122.23 59.67 46.67 66.43 113.60 35.25 43.00 77.20

MANAGED CARE QUERY APPLICATION (MCQA) SUMMARY OF CHAMPUS RADIOLOGICAL PROCEDURES - OUTPATIENT ONLY FY-93 DATA 01 OCT 92 TO 30 SEP 93

CPT CODE 76970 76986 76999	PROCEDURE US FOLLOW UP STUDY US INTRAOPERATIVE UNLISTED US PROCEDURE	NUMBER OF SERVICES 1 3 88	TOTAL AMOUNT BILLED 31.00 500.00 5578.00	31.00 166.67 63.39	TOTAL AMOUNT ALLOWED 31.00 200.00 3468.00	AVG AMT ALLOWED 31.00 66.67 39.41
	GASTROINTESTINAL	1491	136242		89178	
74220 74240 74241 74245 74247 74249 74250 74305 74328 74330 74270 74280 74340	GI ESOPHAGUS PHARYNX SWALLOWING CINERADIOGR GI TRACT UPPER W/O KUB GI TRACT UPPER W KUB GI TRACT UPPER W SMALL BOWEL GI TRACT UPPER AIR CONT W BARIUM/KUB GI UPPER AIR CONT W BARIUM/KUB GI AIR CONT W BAR/KUB SMALL BO SMALL BOWEL CHOLANGIOGRAPHY SURGERY CHOLANGIOGRAPHY POSTOP BILIARY DUCT ENDO CATH BILIARY/PANCREATIC ENDO CATH COLON BARIUM ENEMA BARIUM AIR CONT CHOLECYSTOGRAPHY GI X-RAY GUIDE INTUBATION	51 29 125 186 41 52 3 1 22 18 3 7 6 97 25 13 2	2646.00 737.00 9051.00 6011.00 2652.00 4138.00 99.00 261.00 956.00 508.00 77.00 448.00 459.00 6769.00 1850.00 482.00 339.00	51.88 25.41 72.41 32.32 64.68 79.58 33.00 261.00 43.45 28.22 25.67 64.00 76.50 69.78 74.00 37.08 169.50	1669.00 734.00 5802.00 5820.00 2057.00 2475.00 99.00 167.00 703.00 369.00 409.00 440.00 4752.00 1402.00 263.00 64.00	32.73 25.31 46.42 31.29 50.17 47.60 33.00 167.00 31.95 20.50 18.67 62.86 68.17 48.99 56.08 20.23 32.00
	CT	681	37483		27281	
76360 76370 76375 74160 73201 73200 70460 70481 70490 70491 70193 72126 72132 71260 70450 70450 70480 70480 70480 70480 70480 70480 70480 70490 70491	CT NEEDLE BIOPSY CT PLACE OF RAD THER CT OTHER PLANES CT ABDOMEN W CONT CT ARM W CONT CT UPPER EXTREMITY WO CONTRAST CT BRAIN W CONT CT EAR W CONT CT FACE W CONT CT NECK W CONT CT NECK W CONT CT PELVIS W CONT CT C-SPINE W CONT CT L-SPINE W CONT CT THORAX W CONT CT TABDOMEN W/O CONT CT EAR W/O CONT CT FACE W/O CONT CT TACE W/O CONT CT CT FACE W/O CONT CT CT SPINE W/O CONT CT CT C-SPINE W/O CONT CT C-SPINE W/O CONT	9 3 233 192 2 1 69 4 34 2 6 28 93 6 11 102 26 173 9 138 4 17 32	1550.00 372.00 3585.00 40839.00 873.00 148.00 9989.00 626.00 3161.00 277.00 479.00 4650.00 15833.00 23106.00 23106.00 24756.00 21359.00 2329.00 23381.00 406.20 1975.00 5193.00 564.00	156.50 92.97 138.50 79.83 166.07 170.25 143.00 111.18 226.53 182.92 123.46 258.78 169.43 101.55 116.18	3268.00 3268.00 26495.00 411.00 111.00 7579.00 516.00 3118.00 220.00 478.00 3422.00 13771.00 804.00 1053.00 14478.00 3150.00 16089.00 1452.00 17055.00 356.00	153.89 63.67 14.03 137.99 205.50 111.00 109.84 129.00 91.71 110.00 79.67 122.21 148.08 134.00 95.73 141.94 121.15 93.00 161.33 123.59 89.00 101.24 123.47 118.50
72131 71250 74170 73202 70470 70482 70488 70492 72194 71270	CT L-SPINE W/O CONT CT THORAX W/O CONT CT ABD W & W/O CONT CT ARM W & W/O CONT CT BRAIN W & W/O CONT CT EAR W & W/O CONT CT FACE W & W/O CONT CT NECK W & W/O CONT CT PELVIS W & W/O CONT CT THORAX W & W/O CONT	77 23 60 1 103 3 14 1 27 11	15384.00 4550.00 15778.00 49.00 17467.00 331.00 1532.00 111.00 5754.00 2390.00	199.79 197.83 262.97 49.00 169.58 110.33 109.43 111.00 213.11 217.27	10042.00 2849.00 10913.00 49.00 13370.00 331.00 1532.00 111.00 4810.00 1832.00	130.42 123.87 181.88 49.00 129.81 110.33 109.43 111.00 178.15 166.55
74181 73721 73220 70551 70552	MRI MRI ABDOMEN MRI ANKLE MRI ARM/HAND MRI BRAIN MRI BRIAN WITH CONTRAST	11 49 12 94 1	5591.00 25537.00 7189.00 57668.00 1395.00	508.27 521.16 599.08 613.49 *****	3025.00 17558.00 3297.00 29626.00 674.00	275.00 358.33 274.75 315.17 674.00

MANAGED CARE QUERY APPLICATION (MCQA) SUMMARY OF CHAMPUS RADIOLOGICAL PROCEDURES - OUTPATIENT ONLY FY-93 DATA 91 OCT 92 TO 30 SEP 93

			TOTAL		TOTAL	
CPT		NUMBER OF	AMOUNT	AVG AMT	AMOUNT	AVG AMT
CODE	PROCEDURE	SERVICES	BILLED	BILLED	ALLOWED	ALLOWED
71550	MRI CHEST	7	4731.00	675.86	2634.00	376.29
73221 70540	MRI ELBOW/WRIST/FINGER MRI FACE/NECK/ORBIT	20	6350.00	317.50	3660.00	183.00
75552	MRI HEART	17 2	6903.00 1050.00	406.06 525.00	4105.00 234.00	241.47 117.00
73720	MRI LEG	11	6399.00	581.73	2895.00	263.18
72196	MRI PELVIS	13	11696.00	899.69	4979.00	383.00
72156	MRI C-SPINE WITH & WO CONTRAS	T 1	1350.00	1350.00	1350.00	1350.00
72157	MRI T-SPINE WITH & WO CONTRAS		1350.00	1350.00	321.00	321.00
72158	MRI L-SPINE WITH & WO CONTRAS		1350.00	974.37	321.00	321.00
72141 72146	MRI C-SPINE MRI T-SPINE	63 2	61385.00	974.37	26746.00	424.54
72148	MRI L-SPINE	55	1940.00 59996.00	970.00 1090.84	955.00 27294.00	477.50 496.25
72149	MPT I CDTNE	1	1395.00	1395.00	688.00	688.00
70336	MRI TEMPOROMANDIBULAR	15	13000.00	866.67	6612.00	440.80
		15				
		376	276275		136974	
	CARDIAC/ARTERIAL/VENOUS					
75625	AORTOGRAPHY ABDOMINAL SERIALO		155.00	155.00	155.00	155.00
75630	AORTOGRAPHY ABD BILAT ILIOFEM		2250.00	187.50	2250.00	187.50
75650	ANGIOGRAPHY CERVICEREBRAL CAT		1225.00	175.00	1225.00	175.00
75665 75680	ANGIOGRAPHY CAROTID/CEREBRAL ANGIOGRAPHY CAROTID/CEREBRAL		185.00 3130.00	185.00	185.00	185.00
75685	ANGIOGRAPHY VERTEBRAL/CERVICAL		365.00	240.77 182.50	2864.00 365.00	220.31 182.50
75710	ANGIOGRAPHY EXTREMITY UNILAT	3	465.00	155.00	465.00	155.00
75726	ANGIOGRAPHY VISCERAL	1	155.00	155.00	155.00	155.00
75731	ANGIOGRAPHY ADRENAL UNILAT	1 1 9	244.00	244.00	210.00	210.00
75754	ANGIOGRAPHY CORONARY BILAT ANGIOGRAPHY CORONARY BYPASS	9	1410.00	156.67	1258.00	139.78
75766	ANGIOGRAPHY CORONARY BYPASS	1	255.00	255.00	219.00	219.00
75774 75790	ANGIOGRAPHY SELECTIVE ANGIOGRAPHY ARTERIOVENOUS SHU		155.00	155.00	155.00	155.00
75820	VENOGRAPHY EXTREMITY UNILAT	N 2	310.00 1036.00	155.00 103.60	142.00 402.00	71.00 40.20
75822	VENUCDYDAR EALDENTAN DILYA	-	175.00	175.00	53.00	53.00
75827	VENOGRAPHY CAVAL SERIALOGRAPH	1	155.00	155.00	155.00	155.00
75960	INTRAVASCULAR STENT TRANSCATHI	E 2	770.00	385.00	525.00	262.50
75962	ARTERY TRANSLUMINAL BALLOON AN		575.00	191.67	575.00	191.67
75964	ANGIOPLASTY, TRANSLUMINAL BALI VENOUS TRANSLUMINAL BALLOON AT		125.00	125.00	125.00	125.00
75978	VENOUS TRANSLOMINAL BALLOON AN	NG 1	230.00	230.00	41.00	41.00
		73	13370		11524	
	RADIATION THERAPY					
77261		27	3613.00	133.81	1578.00	58.44
77262		6	1022.00	170.33	528.00	88.00
77263		44	8650.00	196.59	5704.00	129.64
77280 77285		64	6678.00	104.34	3910.00	61.09
77290		11 57	2075.00 14241.00	188.64 249.84	973.00 7173.00	88.45 125.84
77300		171	13459.00	78.71	6113.00	35.75
77305		3	273.00	91.00	135.00	45.00
77310		1	122.00	122.00	62.00	62.00
77315		49	8175.00	166.84	4039.00	82.43
77321		6	1140.00	190.00	444.00	74.00
77328 77331		1 2	340.00 221.00	340.00 110.50	121.00 102.00	121.00 51.00
77331		7	682.00	97.43	231.00	33.00
77333		6	834.00	139.00	291.00	48.50
77334		33	6098.00	184.79	2516.00	76.24
77420		316	35137.00	111.19	22131.00	70.03
77425		148	21060.00	142.30	13724.00	92.73
77430 77431		790 16	113026.00 1657.00	143.07 103.56	91570.00 1253.00	115.91 78.31
77431		2	300.00	150.00	176.00	88.00
77784		3	2100.00	700.00	1269.00	423.00
		1763	240903		164043	

FY92 MEPRS ANCILLARY WEIGHTED PROCEDURES BY WORKCENTER FOR SUMMARY ACCOUNT DCA (DIAGNOSTIC RADIOLOGY)

STATE OR COUNTRY
ALABAMA 0001 FOX ACH 86506 0003 LYSTER ACH 157732 0002 NOBLE ACH 155782 0004 502nd MEDICAL GROUP 197112 ALASKA 0005 BASSETT ACH 117633 0007 BH NAVSTA ADAK 23393 ALASKA 0006 3rd MEDICAL CENTER 203713
0003 LYSTER ACH 157732 0002 NOBLE ACH 155782 0004 502nd MEDICAL GROUP 197112 ALASKA 0005 BASSETT ACH 117633 0007 BH NAVSTA ADAK 23393 ALASKA 0006 3rd MEDICAL CENTER 203713
0002 NOBLE ACH 155782 0004 502nd MEDICAL GROUP 197112 ALASKA 0005 BASSETT ACH 117633 0007 BH NAVSTA ADAK 23393 ALASKA 0006 3rd MEDICAL CENTER 203713
0004 502nd MEDICAL GROUP 197112 ALASKA 0005 BASSETT ACH 117633 0007 BH NAVSTA ADAK 23393 ALASKA 0006 3rd MEDICAL CENTER 203713
ALASKA 0005 BASSETT ACH 117633 0007 BH NAVSTA ADAK 23393 ALASKA 0006 3rd MEDICAL CENTER 203713
O007 BH NAVSTA ADAK 23393 ALASKA 0006 3rd MEDICAL CENTER 203713
ALASKA 0006 3rd MEDICAL CENTER 203713
0203 343rd MEDICAL COOLD CLINIC COOL
0502 24214 LIEDTONE BKOOK CFIMIC 6788
ARIZONA 0008 BLISS ACH 102573
0011 82nd MEDICAL SQUADRON 41880
0009 58th MEDICAL GROUP 333318
0010 355th MEDICAL GROUP 128214
ARKANSAS 0012 97th STRATEGIC HOSPITAL 18196
0013 314th MEDICAL GROUP 128558
CALIFORNIA 0023 HAYS ACH 311848
CALIFORNIA 0023 HAYS ACH 311848 0022 LETTERMAN U.S. ARMY HOSPITAL 135604
0131 WEED ACH 61529
0024 NH CAMP PENDLETON 251029
0028 NH LEMOORE 60602
0025 NH LONG BEACH 94425
0027 NH OAKLAND 534928
0029 NH SAN DIEGO 1357937
0030 NH TWENTYNINE PALMS 62930
0026 NMCL PORT HUENEME 25220
0018 30th MEDICAL GROUP 81932
0021 22nd MEDICAL GROUP 192849
0017 93rd MEDICAL GROUP 69768
0016 323rd FTW HOSPITAL 109979
0015 9th MEDICAL GROUP 34351
0020 831st MEDICAL GROUP 30758
0019 650th MEDICAL GROUP 48073
0014 DAVID GRANT USAF MED CTR 673177
0248 655th MEDICAL SQUADRON 4880
0249 63rd MEDICAL GROUP 28005
0250 652nd MEDICAL GROUP 70696
COLORADO 0032 EVANS ACH 665016
0031 FITZSIMONS AMC 1204623
0033 USAF ACADEMY HOSPITAL 293294
0251 3415th MEDICAL SQUADRON 9147
0252 21st MEDICAL GROUP 38413

FY92 MEPRS ANCILLARY WEIGHTED PROCEDURES BY WORKCENTER FOR SUMMARY ACCOUNT DCA (DIAGNOSTIC RADIOLOGY) ANCILLARY

STATE OR	DMIS		ANCILLARY WEIGHTED
COUNTRY	ID	FACILITY NAME	PROCEDURES
CONNECTICUT	0025	NII COOTON	100645
CONNECTICUT DELAWARE	0035	NH GROTON 436th MEDICAL GROUP WALTER REED AMC NH JACKSONVILLE NH ORLANDO NH PENSACOLA NMCL KEY WEST 31st MEDICAL GROUP 56th MEDICAL GROUP 45th MEDICAL GROUP 646th MEDICAL GROUP 61SENHOWER AMC MARTIN ACH WINN ACH 347th MEDICAL GROUP 653rd MEDICAL GROUP TRIPLER AMC NMCL PEARL HARBOR 15th MEDICAL GROUP	100645
MASHINGTON DC	0030	WALTER REED AMC	1007/4
FLORIDA	0037	MU TACKCONVILLE	1400/2/
LONIDA	0033	NH ADIANDO	100254
	0040	NH DENSACOLA	100Z04 266072
	0030	NMCL KEY WEST	2000/3
		31st MEDICAL GROUP	91/0
		56th MEDICAL GROUP	222000
		325th MEDICAL GROUP	142162
		45th MEDICAL GROUP	127207
		646th MEDICAL GROUP	270287
GEORGIA		EISENHOWER AMC	827154
		MARTIN ACH	509258
		WINN ACH	551429
		347th MEDICAL GROUP	41836
		653rd MEDICAL GROUP	124512
HAWAII		TRIPLER AMC	1324693
		NMCL PEARL HARBOR	99257
		15th MEDICAL GROUP	21643
IDAHO	0053	366th MEDICAL GROUP	55589
ILLINOIS		NH GREAT LAKES	194183
	0054	CHANUTE TTC HOSPITAL	56167
		USAF MED CTR SCOTT	333067
INDIANA	0294	HAWLEY ACH	56171
	0293	305th MEDICAL SQUADRON	8897
KANSAS	0057	IRWIN ACH	260081
		MUNSON ACH	92193
KENTUCKY		BLANCHFIELD ACH	370065
		IRELAND ACH	300803
LOUISIANA		BAYNE-JONES ACH	181396
		NMCL NEW ORLEANS	16679
		2nd MEDICAL GROUP	117241
MAA TALE		23rd MEDICAL GROUP	17829
MAINE		42nd MEDICAL GROUP	31358
MARYLAND		KIMBROUGH ACH	169037
		NH PATUXENT RIVER	31049
		NNMC BETHESDA NMCL ANNAPOLIS	1093225
		MALCOLM GROW USAF MEDICAL CENTER	38195
	0000	HALCOLM GROW OSAF MEDICAL CENTER	565479

FY92 MEPRS ANCILLARY WEIGHTED PROCEDURES BY WORKCENTER FOR SUMMARY ACCOUNT DCA (DIAGNOSTIC RADIOLOGY)

	FUR SUMMARI A	CCOOMI DEA (DIAGNOZIIC KAD	•
CTATE OD	DMTC		ANCILLARY
STATE OR	DMI2	HANE	WEIGHTED
CUUNIKI	ID FACILITY	NAME	PROCEDURES
MASSACHUSETTS	0070 CUTLED A	CH DICAL SQUADRON DICAL GROUP DICAL GROUP ICAL GROUP ICAL SQUADRON MEDICAL CENTER ACH DICAL GROUP	00560
TINGGNUTUGETTG	0070 CUILER A	UTCAL SOUADDON	8850Z
MICHIGAN	0010 04761 ME	DICAL SQUADRON	11409
MONTUAN	0071 379th ME	DICAL GROUP	2/1655
MISSISSIPPI	0074 14th MED	TCAL SUIADON	40255
	0073 KEESLER I	MEDICAL CENTER	1000603
MISSOURI	0075 L. WOOD	ACH	384660
	0076 351st MF	ACH DICAL GROUP ICAL GROUP BERQUIST HOSPITAL DICAL GROUP TSMOUTH N ACH CH	42876
MONTANA	0077 43rd MED	ICAL GROUP	53524
NEBRASKA	0078 EHRLING	BEROUIST HOSPITAL	181839
NEVADA	0079 554th ME	DICAL GROUP	197787
NEW HAMPSHIRE	0321 NMCL POR	TSMOUTH	24027
NEW JERSEY	0081 PATTERSOI	N ACH	109627
	0082 WALSON A	CH	203670
	0326 438th MEI		9521
NEW MEXICO	0085 27th MED		83329
	0084 49th MED:	ICAL GROUP	96733
	0083 542nd MEI	DICAL GROUP	200035
NEW YORK	0086 KELLER AG		77205
	0330 GUTHRIE A		73296
	0087 380th ME		26538
	0088 416th ME[53251
NORTH CAROLINA	0089 WOMACK AN	1C ,	599090
	0091 NH CAMP L	LEJEUNE	236199
	0092 NH CHERRY	Y POINT	80224
	0090 4th MEDIO		85059
	0335 23rd MED1	ICAL GROUP	9611
NORTH DAKOTA	0093 319th MED	DICAL GROUP	34239
01170	0094 5th MEDIC	CAL GROUP	124276
OHIO		CIR WRIGHT-PATTERSON	511221
OKLAHOMA	0098 REYNOLDS		431818
	0097 97th MEDI		32135
		OICAL GROUP	132286
DENNEVINANTA	0338 71st MEDI		11192
PENNSYLVANIA RHODE ISLAND	0099 NMCL PHIL		55107
	0100 NH NEWPOR		91546
SOUTH CAROLINA	D105 MONCRIEF		288998
	0104 NH BEAUFO		87548
	0103 NH CHARLE		297001
	0102 354th MED		42847
	0101 363rd MED		124335
)356 437th MED	ITCAL ZÜNADKON	12194

FY92 MEPRS ANCILLARY WEIGHTED PROCEDURES BY WORKCENTER FOR SUMMARY ACCOUNT DCA (DIAGNOSTIC RADIOLOGY)

074TF 00			ANCILLARY
STATE OR	DMT2	EACTLITY MAME	WEIGHTED
COUNTRI			PROCEDURES
SOUTH DAKOTA	0106	28th MEDICAL GROUP NH MILLINGTON BROOKE AMC DARNALL ACH WILLIAM BEAUMONT AMC NH CORPUS CHRISTI 47th MEDICAL SQUADRON 64th MEDICAL SQUADRON 67th MEDICAL GROUP 96th MEDICAL GROUP ROBERT THOMPSON STRATEGIC HOSDITAL	68752
TENNESSEE	0107	NH MILLINGTON	117933
TEXAS	0109	BROOKE AMC	1319936
	0110	DARNALL ACH	854289
	0108	WILLIAM BEAUMONT AMC	754890
	0118	NH CORPUS CHRISTI	96098
	0114	47th MEDICAL SQUADRON	25747
	0111	64th MEDICAL SQUADRON	49404
	0115	67th MEDICAL GROUP	98301
	0112	96th MEDICAL GROUP	76904
	0116	ROBERT THOMPSON STRATEGIC HOSPITAL	214129
	0113	396th MEDICAL GROUP	172181
	011/	WILFURD HALL USAF MED CTR	1460539
	0366	12th MEDICAL SQUADRON	69003
	0364	391st MEDICAL SQUADRON	18321
	0363	RUBERT THUMPSON STRATEGIC HOSPITAL 396th MEDICAL GROUP WILFORD HALL USAF MED CTR 12th MEDICAL SQUADRON 391st MEDICAL SQUADRON 648th MEDICAL SQUADRON 651st MEDICAL SQUADRON 649th MEDICAL GROUP DEWITT ACH KENNER ACH MCDONALD ACH NH PORTSMOUTH NMCL QUANTICO 1st MEDICAL GROUP MADIGAN AMC NH BREMERTON NH OAK HARBOR NMCL SEATTLE	8242
SIT ALL	0305	651st MEDICAL SQUADRON	31225
UTAH VIRGINIA	0119	DELLIT ACK	75138
VIKGINIA	0123	DEWILL ACH	198666
	0122	MCDONALD ACH	91256
	0121	NH POPTSMOUTH	181850
	0124	NMCI GHANTICO	27/1/
	0120	1st MEDICAL GROUP	158435
WASHINGTON	0125	MADIGAN AMC	699319
	0126	NH BREMERTON	383067
	0127	NH OAK HARBOR	122113
	0396	NMCL SEATTLE	9128
		92nd MEDICAL GROUP	101137
		62nd MEDICAL GROUP	11193
WYOMING 42943		90th MEDICAL GROUP	

FY92 MEPRS ANCILLARY WORKLOAD BY WORKCENTER FOR SUMMARY ACCOUNT DIA (NUCLEAR MEDICINE)

STATE OR COUNTRY	DMIS ID		WORKLOAD
ALABAMA	0004	502nd MEDICAL GROUP	126244
ALASKA	0006	3rd MEDICAL CENTER	93637
CALIFORNIA	0023	HAYS ACH	83181
	0024	NH CAMP PENDLETON	19782
	0025	NH LONG BEACH	13902
	0027	NH OAKLAND	763318
	0029	NH OAKLAND NH SAN DIEGO 22nd MEDICAL GROUP DAVID GRANT USAF MED CTR EVANS ACH FITZSIMONS AMC USAF ACADEMY HOSPITAL NH GROTON NH JACKSONVILLE NH ORLANDO	701185
	0021	22nd MEDICAL GROUP	72693
001.00400	0014	DAVID GRANT USAF MED CTR	642847
COLORADO	0032	EVANS ACH	27476
	0031	FIIZSIMUNS AMU	2131686
CONNECTION	0033	USAF ACADEMI HUSPITAL	139437
CONNECTICUT FLORIDA	0035	NH GRUIUN	13126
FLUKIDA	0039	NH ORLANDO	141928 62198
	• • • •	NH PENSACOLA	25007
		646th MEDICAL GROUP	77792
GEORGIA		EISENHOWER AMC	401558
aconain		MARTIN ACH	86152
HAWAII		TRIPLER AMC	591434
ILLINOIS		NH GREAT LAKES	44035
		USAF MED CTR SCOTT	175658
KENTUCKY		IRELAND ACH	163018
MARYLAND		NNMC BETHESDA	600189
	0066	MALCOLM GROW USAF MEDICAL CENTER	240505
MISSISSIPPI	0073	KEESLER MEDICAL CENTER	310362
MISSOURI		L. WOOD ACH	96625
NORTH CAROLINA		WOMACK AMC	980815
	0091	NH CAMP LEJEUNE	9453
OHIO	0095	NH CAMP LEJEUNE USAF MED CTR WRIGHT-PATTERSON REYNOLDS ACH	365570
OKLAHOMA	0000	KETHOEDO NON	10,000
RHODE ISLAND		NH NEWPORT	6005
SOUTH CAROLINA		MONCRIEF ACH	48119
TENNECCEE		NH CHARLESTON	14605
TENNESSEE		NH MILLINGTON	3470
TEXAS		BROOKE AMC	1170062
		DARNALL ACH WILLIAM BEAUMONT AMC	585184 640325
		NH CORPUS CHRISTI	
		ROBERT THOMPSON STRATEGIC HOSPITAL	4286 45992
		396th MEDICAL GROUP	
		WILFORD HALL USAF MED CTR	40309 822808
VIRGINIA		NH PORTSMOUTH	1055461
WASHINGTON		MADIGAN AMC	1079629
		NH BREMERTON	39300
	0120	AND BACHERION	27300

\$100,049

1,538

====== 7,692

SUMMARY OF CHAMPUS RADIOLOGICAL PROCEDURES FY 93 DATA 01 OCT 92 TO 30 SEP 93

THIRD PARTY COLLECTIONS (TPC)

CPT CODES	SERVICE PROVIDED	COST OF SERVICE	EST ALLOW COST	# POTENT TPC EXAMS	# HISTOR TPC (20%)	POTENT THIRD PARTY COLLECT	POTENT THIRD PARTY ALLOW
71100-71101	X-RAY RIBS (ALL), PER SIDE (UNILAT)	\$113	\$17	95	19	\$2,147	\$323
74220-74340	V-RAT HIPS, BILAT UPPER GASTROINTESTIONAL STUDY WITH CONTRAST	\$143	\$40	689	138	\$19,705	\$5,512
74740	HYSTEROSALPINGOGRAM	\$126	\$32	42	∞	\$1,058	\$269
76090-76092	MAMOGRAM, BILATERAL OR WITH LOCALIZATION	\$129	\$31	3270	654	\$84,366	\$20,274
76506-76999	ULTRASOUND, PER STUDY	\$116	\$60	1591	318	\$36,911	\$19,092
76700	ULTRASOUND, COMPLETE ABDOMEN OR WITH BIOPSY	\$198	\$61	64	13	\$2,534	\$781
70450.70480.70486	CAT HEAD/BRAIN WITHOUT CONTRAST	\$193	\$108	320	64	\$12,352	\$6,912
70460.70481.70487	CAT HEAD/BRAIN WITH CONTRAST	\$218	\$105	107	21	\$4,665	\$2,247
70470,70482,70488	CAT HEAD/BRAIN WITH AND WITHOUT CONTRAST OR POST	\$307	\$127	120	24	\$7,368	\$3,048
	FOSSA AND IAM/IACS						
71260,71250,72125	CAT SCAN CHEST	\$339	\$133	213	43	\$14,441	\$5,666
74160,74170,72194	CAT SCAN ABDOMEN, PER STUDY	\$169	\$141	503	101	\$17,001	\$14,185
73700	CAT SCAN EXTREMITY WITHOUT CONTRAST	\$197	\$89	4	_	\$158	\$71
73701,73201	CAT SCAN EXTREMITY WITH CONTRAST	\$226	\$157	4	-	\$181	\$126
74170,70470,7082	CAT SCAN WITH AND WITHOUT CONTRAST	\$393	\$150	220	4	\$17,292	\$6,600
71550,70551,75552	MRI WITHOUT CONTRAST	\$279	\$200	85	17	\$4,743	\$3,400
70552	MRI WITH CONTRAST BRAIN	\$481	\$481	-	0	96\$	96\$
72146,72141,72148	MRI SPINE (ALL), CHEST AND ABDOMEN WITHOUT CONTRAST	\$229	\$229	121	24	\$5,542	\$5,542
	MRI SPINE (ALL) WITH CONTRAST	\$507	\$300	0	0	\$0	\$0
73721,73220,73221	MRI EXTREMITÝ WITHOUT CONTRAST	\$360	\$298	92	18	\$6,624	\$5,483
•	MRI EXTREMITY WITH AND WITHOUT CONTRAST	\$279	\$300	0	0	\$0	\$0

\$50,024

\$120,314

769

3,846

7,692

SUMMARY OF CHAMPUS RADIOLOGICAL PROCEDURES FY 93 DATA 01 OCT 92 TO 30 SEP 93

THIRD PARTY COLLECTIONS (TPC)

CPT CODES	SERVICE PROVIDED	COST OF SERVICE	EST ALLOW COST	# POTENT TPC EXAMS	50% PATIENT DEMAND RADIOLOGY	# HISTOR TPC (20%)	POTENT THIRD PARTY COLLECT	POTENT THIRD PARTY ALLOW
71100-71101	X-RAY RIBS (ALL), PER SIDE (UNILAT)	\$113	\$17	95	47.5	10	\$1,074	\$162
72170-72190	X-RAY HIPS, BILAT	\$114	\$14	151	75.5	15	\$1,721	\$211
74220-74340	UPPER GASTROINTESTIONAL STUDY WITH CONTRAST	\$143	\$40	689	344.5	69	\$9,853	\$2,756
74740	HYSTEROSALPINGOGRAM	\$126	\$32	42	21	4	\$529	\$134
76090-76092	MAMOGRAM, BILATERAL OR WITH LOCALIZATION	\$129	\$31	3270	1635	327	\$42,183	\$10,137
76506-76999	ULTRASOUND, PER STUDY	\$116	\$60	1591	795.5	159	\$18,456	\$9,546
76700	ULTRASOUND, COMPLETE ABDOMEN OR WITH BIOPSY	\$198	\$61	64	32	9	\$1,267	\$390
70450,70480,70486	CAT HEAD/BRAIN WITHOUT CONTRAST	\$193	\$108	320	160	32	\$6,176	\$3,456
70460,7048170487	CAT HEAD/BRAIN WITH CONTRAST	\$218	\$105	107	53.5	=	\$2,333	\$1,124
70470,70482,70488	CAT HEAD/BRAIN WITH AND WITHOUT CONTRAST OR POST	\$307	\$127	120	9	12	\$3,684	\$1,524
	FOSSA AND IAM/IACS							
71260,71250,72125	CAT SCAN CHEST	\$339	\$133	213	106.5	21	\$7,221	\$2,833
74160,74170,72194	CAT SCAN ABDOMEN, PER STUDY	\$169	\$141	503	251.5	20	\$8,501	\$7,092
73700	CAT SCAN EXTREMITY WITHOUT CONTRAST	\$197	\$86	4	2	0	879	\$36
73701,73201	CAT SCAN EXTREMITY WITH CONTRAST	\$226	\$157	4	2	0	\$30	\$63
74170,70470,7082	CAT SCAN WITH AND WITHOUT CONTRAST	\$393	\$150	220	110	22	\$8,646	\$3,300
71550,70551,75552	MRI WITHOUT CONTRAST	\$279	\$200	82	42.5	တ	\$2,372	\$1,700
70552	MRI WITH CONTRAST BRAIN	\$481	\$481	-	0.5	0	\$48	\$48
72146,72141,72148	MRI SPINE (ALL), CHEST AND ABDOMEN WITHOUT CONTRAST	\$229	\$229	121	60.5	12	\$2,771	\$2,771
	MRI SPINE (ALL) WITH CONTRAST	\$507	\$300	0	0	0	\$0	\$0
73721,73220,73221	MRI EXTREMITY WITHOUT CONTRAST	\$360	\$298	95	46	တ	\$3,312	\$2,742
	MRI EXTREMITY WITH AND WITHOUT CONTRAST	\$279	\$300	0	0	0	\$0	\$0

Family Practice Clinic NHCHASN 7000/10 (Rev Mar 93) Third Party Collection [] Acree [] Epling [] Kutzera [] Simpson Patient Encounter Form Date [] Axman [] Fischer [] MacDonald [] Sofianek [] Bickel [] Floyd [] Maher [] Walker Addressograph (Name, FMP-SSN, DOB) [] Blackburn [] Frazier [] Mason [] Waskowski Name: [] Blonski [] Greenawald[] Mentel [] Butler [] Gresens [] Moya []FMP/SSN [] Chabazi [] Herrold [] Norcross [] Cleary [] Hudson [] Porvaznik DOB: [] Cohen [] Hurley [] Quinlan Circle one: [] Counard [] Jones B. **NEW Visit** [] Renken INSURANCE: YES NO [] Dolney [] Jones W. [] Rutledge F/UP Visit INSURANCE CO, NAME: [] Donaldson[] Kidder [] Schhreiber [] Elwood [] Knauer [] Schrubbe Is today's visit result of accident? Yes___No___ MVA_ Office Visit Minutes New Pt Estab Pt Consult Brief 10 [] 99201 []99211 [] 99241 15 Circle only one please: Limited 20 [] 99202 []99212 [] 99242 30 Pt Info: Active RET DEP RES Intermed 30 [] 99203 [] 99213 [] 99243 40 Branch: N A MC CG AF Extended 45 [] 99204 [] 99214 []99244 60 Comprehen 60 [] 99205 [] 99215 [] 99245 80 [] 314.40 ADD [] 558.9 Diarrhea [] 381.20 Otitis Media, Chronic [] 795.0 Abnormal Pap [] 780.4 Dizziness [] 381.00 Otitis Media, Serous [] 682.9 Abscess/Cyst/Ulcer [] 305.90 Drug Abuse [] 789.0 Pain, Abdomen [] 706.1 Acne [] 304.90 Drug Dependence [] 729.5 Pain, Arm/Shoulder [] 309.0 Adjustment D/O [] 693.0 Drug Reaction [] 724.5 Pain, Back [] 303.9 Alcohol Dependence [] 788.1 Dysuria [] 786.5 Pain, Chest [] 995.3 Allergic Reaction [] 788.3 Enuresis [] 729.5 Pain, Foot [] 477.9 Allergic Rhinitits [] 381.81 Eustachian Tube Dys [] 723.1 Pain, Neck [] 626.0 Amenorrhea [] 783.4 Failure to Thrive [] 625.9 Pain, Pelvic-female [] 285.9 Anemia [] 780.7 Fatigue/Malaise [] 785.1 Palpitations [] 413.9 Angina [] 780.6 Fever [] 533.90 Peptic Ulcer Disease [] 308.0 Anxiety Reaction [] 610.1 Fibrocystic Breast [] 462 Pharyngitis [] 715.0 Arthritis, Degen [] 535.0 Gastritis [] 034.0 Pharyngitis/Strep [] 714.0 Arthritis, Rheum [] 558.9 Gastroenteritis [] V70.0 Physical Exam [] 716.9 Arthritis, Unspec [] 300.2 General Anixety Dis [] 614.9 PID/Cervicitis [] 429.2 ASCAD [] 274.9 Gout [] 486 Pneumonia/unpsec [] 493.9 Asthma [] 578.9 GI Bleeding [] 627.1 Postmenopausal Bleed [] 600 BPH [] 346.9 Headache, Migraine [] 601.0 Prostatitis [] 239.3 Breast Lump [] 784.0 Headache, Unspec [] 590.80 Pyelonephritis [] 490 Bronchitis [] 445.6 Hemorrhoids [] 782.1 Rash [] 519.1 Bronchospasm [] 272.0 Hypercholesterolemia [] 569.3 Rectal Bleeding [] 949.0 Burn, Unspec [] 643.1 Hyperemesis Gravidarium [] 586 Renal Failure [] 727.3 Bursitis [] 272.4 Hyperlipidemia [] 780.3 Seizure D/O [] 682.9 Cellulitis [] 401.9 Hypertension [] 461.9 Sinusiitis [] 847.0 Cervical Strain [] 242.9 Hyperthroidism [] 780.50 Sleep D/O [] 428.0 CHF [] 244.9 Hypothyroidism [] 780.2 Syncope [] 574.2 Cholelithiasis [] 684 Impetigo [] 305.1 Tobacco Use D/O [] 372.30 Conjunctivitis [] 607.84 Impotence [] 854.00 Trauma, Head [] 564.0 Constipation [] 628.9 Infertility, female [] 708.9 Urticaria [] 918.1 Corneal Abrasion [] 564.1 Irritable Bowel Syndrome [] 465.9 URI [] 786.2 Cough [] 379.8 Laceration [] 599.0 UTI [] 496 COPD [] 626.4 Menstrual, Irregular [] 626.9 Vaginal Bleeding [] 429.2 CVA [] 626.2 Menorrhea [] 616.0 Vaginitis, Unspec [] 595.9 Cystitis [] 787.0 Nausea/Vomiting [] 078.1 Venereal Warts [] 276.5 Dehydration [] 650 OB Visit [] 780.4 Vertigo [] 298.9 Dementia/Confusion [] 278.0 Obesity [] 079.9 Viral Syndrome [] 691.9 Dermatitis, Contact [] 380.10 Otitis, Externa [] 078.1 Warts [] 250.0 Diabetes Mellitus [] 382.9 Otitis Media Acute [] V20.2 Well Baby Exam